

Morten Olgaard Jensen, PhD, DrMed, FAHAE-mail: mojensen@uark.edu / dr.morten.jensen@gmail.comCivil Status: Married to [Hanna Jensen, MD, PhD](#)**Education:**

- Doctor of Medical Science (DrMed), School of Medicine / Faculty of Health Sciences, The University of Aarhus, Aarhus, Denmark, March 2015:
[https://en.wikipedia.org/wiki/Doctor_Medicinae_\(Danish_and_Norwegian_degree\)](https://en.wikipedia.org/wiki/Doctor_Medicinae_(Danish_and_Norwegian_degree))
- Doctor of Philosophy (PhD), School of Medicine / Faculty of Health Sciences, The University of Aarhus, Aarhus, Denmark, November 2008
- Master of Science (M.Sc.), Biomedical Engineering, Georgia Institute of Technology / Emory University School of Medicine, Atlanta, GA, USA, May 2000
- Bachelor of Science (B.Sc.) in Engineering with honors, Electrical and Computer Engineering, The Engineering College of Aarhus, Aarhus, Denmark, July 1997

Professional Experience:

- Professor of Biomedical Engineering and Arkansas Research Alliance Scholar, University of Arkansas, Fayetteville, AR, USA (Mar. '25 – present; <https://cblab.uark.edu>)
- Professor of Surgery, University of Arkansas for Medical Sciences, Little Rock, AR, USA (Mar. '25 – present)
- Arkansas Research Alliance Scholar, University of Arkansas, Fayetteville, AR, USA (Aug. '15 – present)
- Associate Professor of Surgery, University of Arkansas for Medical Sciences, Little Rock, AR, USA (June '23 – Mar. '25)
- Vice President of Engineering at UAMS BioVentures (June '22 – present)
- Distinguished Lecturer / Speaker at the Harding University Cardiac Function and Interventional Technology program (April 2023 - present)
- Owner, Jexpert LLC, Company provides occasional expert witness services to product liability and intellectual property litigation cases. (June '20 – present)
- Associate Professor, Dept. of Cardiothoracic Surg., The Univ. Hosp. of Aarhus, DK (Jul. '09 – Dec'13, Adjunct Jan '14 - present)
- Chief Technology Officer, Vivas LLC – Company creates flow model phantoms with synthetic medical gel in partnership with Humimic Medical LLC, sales worldwide (Nov. '17 – Dec. '20)
- Associate Professor and Director of Research, The Scandinavian School of Cardiovascular Technology (Oct. '09 – Aug. '15)
- Research Fellow, Department of Biomedical Engineering, Georgia Tech / Emory, Atlanta, GA, USA (Feb. '14 – Aug. '15)
- Honorary Senior Lecturer, Department of Mechanical Engineering, University College London, London, UK (Apr. '13 – Feb.'14)
- Honorary Clinical Fellow and Senior Lecturer, Cardiology, The Heart Hospital Specialist Board, UCLH, London, UK (Apr. '13 – Feb.'14)
- Assistant Professor, Department of Biomedical Engineering, Engineering College of Aarhus, Aarhus, DK (Oct. '07 – Jul. '09)
- Consulting Services Unit / Worldwide Business Development Group, National Instruments, Austin, TX, USA (June '00-Aug. '05)
- Danish Army Corps of Engineers, Communications Unit, Denmark (Aug. '92 - Jun. '93)

Professional Experience Keywords: Medical Device; Biomedical Technology; Biomechanics; Fluids; Biomaterials; Tissue Engineering; Medical Instrumentation; In Vitro; In Vivo; In Silico Modeling; Medical Imaging; MRI; CT; X-Ray; Ultrasound; Doppler Ultrasound; Quality Assurance; Image Acquisition & Processing; Consulting Services; Business Development; Intra-operative Heart Surgery Monitoring Systems; Patient Specific Heart Valve Therapy; TAVR; TMVR; Experimental Cardiac Surgery; Microelectronics; Photonics; Innovative Devices for Improved Interventions; Course Development and Teaching; Customer Education; Engineering Leadership Program; International Collaborations and Student Exchange; Blood Pressure and Flow Measurement; Cardiovascular Fluid Mechanics; Heart Valve Surgery; Ultrasound; Nitinol; Minimally Invasive Devices; Pacemakers; Implantable Electronics; Force Measurement in Tissue; Group Manager; Image Acquisition and Motion Control; Course Development and Inaugural Execution; Integrated Systems Design; Subsystem Level Proof of Concept; R&D (Research & Development); Certified Professional Instructor: LabVIEW, Data Acquisition (DAQ), Signal Conditioning, IMAQ Machine Vision & Image Processing, Motion Control, Simulation, System Identification, Control Design, TestStand; Marketing Conventions; Show Captain; Medical Device & Manufacturing; Recruiting Manager; Hemodynamic Performance; Design and Improvement of Mechanical and Tissue Engineered Prosthetic Heart Valve Devices: Flow Visualization, Pressure Drop; FDA Required Device Testing Measurements; Mechanical and Bioprosthetic Mitral and Aortic Heart Valves; Turbulent Blood Flow Distal to Artificial Aortic Valves; Entrepreneurship; Grant Proposals; Research Funding; Research Leadership

Awards / Honors / Nominations

- Outstanding Research Award, Department of Biomedical Engineering, College of Engineering University of Arkansas, May 2025
- Outstanding Teaching Award, Department of Biomedical Engineering, College of Engineering, University of Arkansas, May 2024
- Distinguished Research and Teaching Faculty Award of the University of Arkansas Honors College, September 2022
- Fellow of the American Heart Association, September 2021
- National Science Foundation Research Experience Award Mentor, April 2019
- American Heart Association Heart Hero, November 2018
- Biomedical Engineering Society / Medtronic Coulter College Design Scholar Award Mentor, August 2018
- Outstanding Mentor, University of Arkansas Office of Nationally Competitive Awards - for Goldwater Scholar "*Nation's most prestigious award for undergraduate students who plan doctoral studies and research careers in the fields of science, mathematics or engineering*" April 2018
- AcademicKeys Who's Who in Engineering Higher Education (WWEHE)
- Excellence in Research Dissemination Award, College of Engineering, University of Arkansas, May 2017
- Outstanding Teaching Award, Department of Biomedical Engineering, University of Arkansas, May 2017
- Southeastern Conference Travel Award 2016
- Arkansas Research Alliance Scholar Award, August 2015
- Young Investigator Award, Leducq MITRAL Transatlantic Network, May 2010
- The Danish Engineering Service Award, June 2009
- The Danish Engineering Service Award, January 2009
- The Danish Society of Engineers Honorary Award of Excellence (Elektroprisen), May 2008
- Faculty of Health Sciences 1st Prize Award for Excellent Scientific Contribution at the University of Aarhus Graduate School of Health Sciences, January 2008, Aarhus, Denmark
- Paper Competition Finalist, The Bioengineering Division of the American Society of Mechanical Engineers, June 2008, Marco Island, Florida, USA
- C. Walton Lillehei / St. Jude Medical Young Investigators Award Presentation Finalist, Fourth Biennial Meeting of the Society for Heart Valve Disease, June 2007, New York, NY, USA
- 1st Prize, Award Presentation Session, 25th Danish Annual Congress in Biomedical Engineering, September 2007, Brædstrup, Denmark
- 1st Prize for Excellent Scientific Contribution at the University of Aarhus Graduate School of Health Sciences, January 2006, Aarhus, Denmark
- Young Investigators Award 2nd Place: The Scandinavian Society for Research in CardioThoracic Surgery, 16th Annual Meeting, February 2006, Geilo, Norway

Patents and Publications of Intellectual Property / Patent Applications

- Bean M, Jensen M, Uretsky B, Elmer K. "Patient Specific Medical Balloon Forming Machine and System" *United States Patent No. 12,186,508 B2, Issuance Date: Jan.07, 2025*
- Jensen M, Elmer K, Uretsky B, Chaus A. "Bifurcation Geometry Measurement and Prediction Software", non-provisional application (related to PCT filing PCT/US2024/015935) filed August 14, 2025. Assigned application no. 19/156,817.
- Sexton KW, Wu J, Jensen MO, Jensen HK, Dassinger M, Henry K, Wu J, Saunders R, Sanford J, Al-Alawi A, Bonasso P: "Methods and Systems for Predicting the Effect of Inhaled and Infused Anesthetics" - Utility - Nonprovisional Application 19/034,350, *Continuation In Part (CIP), 01/22/2025*
- Jensen M, Elmer K, Uretsky B, Chaus A: "Composite stent with variable diameter and cross section", *Provisional patent application, June 12, 2024, Application Number 63/659,261, Attorney Docket No. AF42186.P060V1*
- Jensen MO, Wickramasinghe R, Green M, Elmer K, Stephens S: "Localized Intra-Arterial Drug Delivery Device", *Provisional Patent 63/631,180, Application Date Apr 8, 2024*
- Sexton KW, Wu J, Jensen MO, Jensen HK, Dassinger M, Henry K, Sanford J, Al-Alawi A, Bonasso P: "Methods and Systems for Predicting the Effect of Inhaled and Infused Anesthetics". *Patent Pending / United States Patent Application Publication No. US 2023/0165520 A1, Pub. Date: Jun. 1, 2023*
- D'Angelo DC, Thomas L, Jensen MO, Stephens S: "Surgical Spoons for Veterinary Use *Provisional patent application, July 14, 2021, Attorney Docket No. ARK-2021-023US, Serial Nos. 63/221,893 (provisional); 17/812,687 (PCT 2023).*
- Jensen M, Girardot M: "Venous Valve Bio-prosthesis Prepared from Animal Tissue Optimized for Human Implantation" Provisional Patent Filed.
- Elmer, K.M., B.F. Uretsky, A. Chaus, M.O. Jensen: "Coronary Artery Bifurcation Geometry Measurement Systems and Methods", US Provisional Patent Application No 63/445,940. 15-Feb-2023
- Jensen M, Brickey K, Harris N: "Acute Ischemic Stroke Clot Dissolver and Capture Device". Provisional Patent Filed.
- Jensen M, Hestekin J, Maier A, White M: "Inexpensive, Reproducible Vasculature Modeling Process". Trade Secret filed with the University of Arkansas Technology Ventures Office.
- Maigaard, T, Jensen, M: "A device for indicating contamination of the abdominal cavity or the like" Ref. ID# PA2011 702452457DK00. Priority Date May 18th, 2011
- Jensen, Gadgaard, Hoest, Madsen, Rasmussen: "Expandable Diffuser", International Patent Filed on June 25, 2009 under No.: PA 2009 00787, Published Internationally on December 29th, 2010 (WO/2010/149168A1)
- Balent, JS.; Jensen MO: "Signal Analysis Using Image Processing Techniques", U.S. provisional application Serial No. 60/357,691, U.S. utility application Serial No. 10/365,568; U.S. Patent Publications # 2003-0165259 A1, Patents Official Gazette, September 04, 2003

Board of Directors Memberships, Appointments, Committees

- National Institutes of Health (NIH) R01 Bioengineering, Technology and Surgical Sciences Study Section panel member (ad hoc), Center for Scientific Review (CSR)
- American Heart Association Transformational Program Award / Bioengineering Study Section panel member
- Panel member at the Biomechanics and Mechanobiology (BMMB) program at the National Science Foundation (NSF) CAREER program.
- National Institutes of Health (NIH) R01 Therapeutic Development and Preclinical Studies [TDPS] study section / Respiratory, Cardiac and Circulatory System (RCCS) Branch Study Section panel member (ad hoc), Center for Scientific Review (CSR).

- National Institutes of Health (NIH) R01 Member Reviewer Conflict Special Emphasis Panel on Bioengineering, Surgery, Anesthesiology, and Trauma
- National Science Foundation (NSF) Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Medical Devices programs review panel member in the “Implantables & General Medical Devices” section, panel subsections including Implantables and Procedures, General Devices, Rehabilitation, Diagnostics, Instrumentation, Externals, Wearables, Sensors, Medical Technology (materials, manufacturing)
- National Defense Science and Engineering Graduate Fellowship Study Section member
- NIH Fellowship Study Section F30/31/32: ZRG1 F10A, Physiology and Pathobiology of Cardiovascular and Respiratory Systems
- Member of the IEEE Engineering in Medicine and Biology Technical Committee entitled “Cardiopulmonary Systems and Physiology-based Engineering” (IEEE EMB TC CSPE)
- NIH Joint Biomedical Laboratory and Clinical Science Research and Development Services Scientific Merit Review Board – Subcommittee for Cardiovascular Studies. Department of Health and Human Services, National Institutes of Health (NIH)
- National Institutes of Health (NIH) F10A Study Section panel member, Center for Scientific Review (CSR) Special Emphasis Panel (SEP) / Fellowship Grant Applications: Physiology and Pathobiology of Cardiovascular and Respiratory Systems (F30, F31, F32, F33)
- Department of Defense (DoD) National Defense Science and Engineering Graduate (NDSEG) Fellowships Review Committee
- National Institutes of Health (NIH) AREA / R15 Study Section panel member, Center for Scientific Review (CSR): Cardiovascular Differentiation and Development (CDD), Electrical Signaling, Ion Transport, and Arrhythmias (ESTA)
- Mentor at the 2018 American Heart Association Research Leaders Academy, Salt Lake City, Utah
- Appointed to the Danish Academy of Engineers
- Member of the Arkansas Research Alliance Academy of Scholars and Fellows
- The Center for Innovative Cardiovascular Technologies (CICT)
- Board of Directors at the Danish Society for Biomedical Engineering (DMTS) (Member 2009-2014, Consultant 2014-present)
- The Danish Accreditation Council
- Board of Advisors for the Danish Cardiovascular Research Academy
- Board of Directors for the Cardiovascular PhD Education, School of Medicine, University of Aarhus
- Academic Assessment Committee, University of Aalborg
- Academic Assessment Committee, University of Aarhus, Faculty of Health
- Dean of Medicine, UAMS NWA Search Committee

Editor / Editorial Board

- K. Dremstrup, S. Rees, M. Ø. Jensen: Editors, Proceedings of the 15th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, Vol. 34, the International Federation for Medical and Biological Eng., ISBN 1680-0737, Springer DOI 10.1007/978-3-642-21683-1
- Editorial Board of the American Journal of Cardiovascular Disease (PubMed Indexed, www.ajcd.us)

Reviewer / Journal Referee

- Circulation Heart Failure (American Heart Association)
- Journal of Heart Valve Disease
- Annals of Thoracic Surgery
- Cardiovascular Engineering and Technology

- Journal of Biomechanics
- Annals of Biomedical Engineering
- Medical Engineering & Research
- Journal of Biological Engineering
- Public Library Of Science (PLOS) ONE
- Biomechanics and Modeling in Mechanobiology
- Experimental Mechanics
- International Journal for Numerical Methods in Biomedical Engineering
- Journal of Biomedical Materials Research
- Journal of Biomechanical Engineering (American Society of Mechanical Engineers)
- Journal of Cardiovascular Translational Research
- IEEE Transactions on Biomedical Engineering
- Journal of NeuroInterventional Surgery
- Heart
- Measurement
- Computer Methods in Biomechanics and Biomedical Engineering
- International Journal of Artificial Organs
- Journal of Surgical Research
- Clinical Physiology and Functional Imaging
- Journal of Computational Biology and Bioinformatics Research
- Medical & Biological Engineering & Computing
- Hult International Business School
- University of Bordeaux, IdEx Post-doctoral Fellowships program – evaluate candidates
- Associate Abstract Referee: Danish Annual Congress in Biomedical Engineering

Conference Chairman / Moderator

- Oral Session Chair, Growth and Remodeling Mechanics, Bioengineering and Biotransport Conference (SB3C2025), June 22-25, 2025, Santa Ana Pueblo, New Mexico, USA
- (Oral Session Chair, Cardiovascular Fluid Mechanics, Biomechanics, Bioengineering and Biotransport Conference (SB3C2024), June 11-14, 2024, Lake Geneva, WI, USA)
- Oral Session Chair, Cardiovascular Engineering, Device Technologies and Biomedical Robotics: Vascular Devices and Hemodynamics, Biomedical Engineering Society 2018 Annual Meeting, October 19th, Atlanta, Georgia, USA
- Oral Session Chair, Hemodynamics and Vascular Mechanics, Biomedical Engineering Society 2015 Annual Meeting, October 8th, Tampa, Florida, USA
- Oral Session Moderator, 33rd Annual meeting of the Scandinavian Society of ExtraCorporeal Technology, Aarhus, Denmark August 22nd - 24th, 2013
- Poster Session Moderator, 62nd Annual Meeting of Scandinavian Association for Thoracic Surgery, Aarhus, Denmark August 22nd - 24th, 2013
- Award Presentation Committee Chairman, 31st Danish Annual Congress in Biomedical Engineering, September 18th, 2013, Brædstrup, Denmark
- Award Presentation Committee Chairman, 30th Danish Annual Congress in Biomedical Engineering, September 19th, 2012, Brædstrup, Denmark
- Award Poster Presentation Committee Chairman, 30th Danish Annual Congress in Biomedical Engineering, September 20th, 2012, Brædstrup, Denmark
- Moderator: "Beyond the Limits of Mitral Valve Repair", Mitral Valve Replacement Symposium, September 29th, 2011, Aarhus University Hospital, Denmark
- Session Chairman, 60th Scandinavian Conference in Cardiothoracic Surgery, Tampere, Finland, 18 - 20 Aug 2011
- International Federation for Medical and Biological Engineering (IFMBE) Young Investigator Awards Committee, June 14-17th, 2011, Aalborg, Denmark

- Panel Discussion Member: “Biomedical Engineering Education”, 15th Nordic – Baltic Conference on Biomedical Engineering and Medical Physics, June 14th - 17th, 2011, Aalborg, Denmark
- Chairman: “Cardiovascular & Pulmonary Engineering”, 15th Nordic – Baltic Conference on Biomedical Engineering and Medical Physics, June 14th - 17th, 2011, Aalborg, Denmark
- 29th National Meeting at the Danish Society for Biomedical Engineering, June 14th - 17th, 2011, Aalborg, Denmark
- Session Chairman, 30th Scandinavian Conference in ExtraCorporeal Technology, Oslo, Norway, 26 - 28 Aug 2010
- Session Chairman, PhD-day, Faculty of Health Sciences, Aarhus University, Denmark, January 15th, 2010
- Award Presentation Session Committee, 27th Danish Annual Congress in Biomedical Engineering, September 22nd, 2010, Brædstrup, Denmark
- Award Poster Presentation Session Committee, 27th Danish Annual Congress in Biomedical Engineering, September 23rd, 2010, Brædstrup, Denmark
- Session Chairman, 19th World Congress of the World Society of Cardio-Thoracic Surgeons
- Buenos Aires, Argentina, November 4th – 6th, 2009
- Award Presentation Session Committee, 28th Danish Annual Congress in Biomedical Engineering, September 17th, 2009, Brædstrup, Denmark

Conference Organizing / Scientific Committee

- 31st National Meeting at the Danish Society for Biomedical Engineering, September 17th – 19th, 2013, Braedstrup, Denmark
- 30th National Meeting at the Danish Society for Biomedical Engineering, September 19th – 20th, 2012, Braedstrup, Denmark
- 15th Nordic – Baltic Conference on Biomedical Engineering and Medical Physics, June 14th - 17th, 2011, Aalborg, Denmark
- 29th National Meeting at the Danish Society for Biomedical Engineering, June 14th - 17th, 2011, Aalborg, Denmark
- 28th National Meeting at the Danish Society for Biomedical Engineering, September 21st - 23rd, 2010, Braedstrup, Denmark
- 27th National Meeting at the Danish Society for Biomedical Engineering, September 22nd - 24rd, 2009, Braedstrup, Denmark

Grants and Research Funding

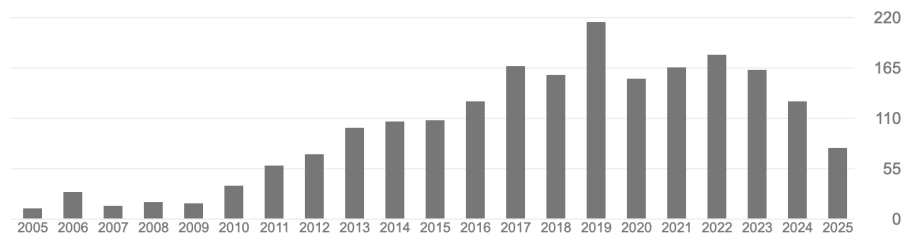
- Total external funding at previous faculty position (assistant and associate professor from 2007 to 2014) at the University of Aarhus in Denmark: \$1,013,116
 - Total external funding at current faculty position and rank (associate professor) at the University of Arkansas as PI (excluding co-PI portions): \$4,449,883
 - Total external funding since first faculty position: \$5,462,999
- Major External Funding Sources:
- National Institutes of Health / National Heart, Lung, and Blood Institute (NHLBI)
 - Department of Defense / Congressionally Directed Medical Research Programs (CDMRP)
 - National Science Foundation
 - American Heart Association
 - Arkansas Research Alliance
 - Danish Heart Association
 - Hørslev Foundation
 - Danielsen Foundation
 - Jacobsen Foundation

Publications and Appearances Summary

- 110 Peer reviewed and refereed publications
- 20 Magazine articles
- 11 Books / book chapters
- 170 Conference presentations and keynote addresses
- 35 Seminars / invited guest speaker
- 14 Publications of Intellectual Property / Patent Applications
- >125 Public Media Appearances

Google Scholar Summary as of August 7th, 2025

- Citations: 2167
- h-index: 24

**Peer Reviewed Paper Publications (*Published or in press*)**

- 1) Elmer K, Caffin C, Scott B, Stephens S, Jensen MO: "Development and Characteristics of a Dual-Layered Vascular Phantom", *In Press Cardiovascular Engineering and Technology (CVET) October 2025*
- 2) Bonvillain GP, Pierce LD, Hayat MA, Villafranca AA, Stephens SE, Luke Ferguson, Jensen HK, Sanford JA, Wu J, Sexton KW, Jensen MO "Pulse Rate Variability Analysis During Hemorrhage in an Experimental Porcine Model" *Medical Research Archives, The European Society of Medicine, 30 June 2025, Volume 13 Issue 6, Pages 1-13, <https://doi.org/10.18103/mra.v13i6.6703> , PMID: [PMC12571234](https://pubmed.ncbi.nlm.nih.gov/39196650/)*
- 3) Stephens S, Whale L, Kapales M, Ayub F, Jensen MO, Singh M "Addressing the Barriers to Peritoneal Dialysis - Visual Appeal Matters" *PLOS ONE, July 8, 2025, <https://doi.org/10.1371/journal.pone.0326921>, PMID: 12237038*
- 4) Bonvillain GP, Pierce LD, Hayat MA, Villafranca AA, Stephens SE, Ferguson L, Jensen HK, Sanford JA, Wu J, Sexton KW, Jensen MO: "The Importance of a Continuously Changing Heart Rate in Venous and Arterial Pressure Analysis" *Medical Research Archives, The European Society of Medicine, 31 August 2025, Volume 13 Issue 8, Pages 1-9. doi: <https://doi.org/10.18103/mra.v13i8.6824>. PMID: [PMC12574384](https://pubmed.ncbi.nlm.nih.gov/39196650/)*
- 5) Ingels NB, Karlsson M, Jensen MO: "Inertia-Driven Mitral and Aortic Valves: The Isovolumic Myth", *Medical Research Archives, Vol.13, Issue 6, June 2025, <https://doi.org/10.18103/mra.v13i6.6694>*
- 6) Markham GH, Wenos CD, Jensen MO, Jensen HK, Markham LW, Brown JW, Herrmann JL: "Ross Confers More Favorable Left Ventricular Remodeling Compared to Mechanical Aortic Valve" *August 28, 2024, World Journal for Pediatric and Congenital Heart Surgery: <https://doi.org/10.1177/21501351241266122>, PMID: 39196650*

- 7) Jack JT, Jensen MO, Collins RT, Chan FP, Millett PC, "Numerical Study of Hemodynamic Flow in the Aortic Vessel of Williams Syndrome Patient With Congenital Heart Disease"; *Journal of Biomechanics*, 2024 May;168:112124. doi: 10.1016/j.jbiomech.2024.112124. Epub 2024 Apr 29. PMID: 38701696
- 8) D'Angelo DC, Stephens SE, Jensen MO, Thomas LR: "Design, Fabrication, and Evaluation of 3D-Printed Surgical Spoons as Cystotomy Retrieval Methods in Dogs" *American Journal of Veterinary Research (AJVR)*, Volume 84: Issue 10, August 31, 2023, doi.org/10.2460/ajvr.23.02.0038, Pages 1-8
- 9) Hayat MA, Wu J, Stephens S, Jensen HK, Villafranca AA, Sanford JA, Sexton KW, Jensen MO: "Modeling Peripheral Arterial and Venous Pressure Signals with Integral Pulse Frequency Modulation". *Biomedical Signal Processing and Control*, Volume 86, Part B, September 2023, doi.org/10.1016/j.bspc.2023.105240, Pages 1-11
- 10) Kampen Av, Morningstar JE, Goudot G, Ingels N, Wenk JF, Nagata Y, Yaghoubian KM, Norris RA, Borger MA, Melnitchouk S, Levine RA, Jensen MO: "Utilization of engineering advances for detailed biomechanical characterization of the mitral-ventricular relationship to optimize repair strategies – a comprehensive review" *Bioengineering*, May 17, 2023, 10(5), 601; Pages 1-26; doi: 10.3390/bioengineering10050601; PMID: 37237671; PMCID: PMC10215167
- 11) Elmer KM, Uretsky BF, Chaus A, Jensen MO: "Analyzing Coronary Bifurcation Structures: Towards Personalized Balloon Angioplasty and Stent Deployment" *Journal of Clinical Images and Medical Case Reports*, www.doi.org/10.52768/2766-7820/2275; Vol. 4, February 2023, p 1-8.
- 12) Laughlin M, Potts E, Collins RT, Bolin E, Jensen HK, Millett P, Jensen MO: "Investigation of a Novel Intracardiac Flow Parameter Using Blood Speckle Imaging" *Journal of Clinical Images and Medical Case Reports*, www.doi.org/10.52768/2766-7820/2244; Vol. 4, January 2023, p. 1-4.
- 13) Wood K, Stephens S, Xu F, Hazaa A, Meek JC, Jensen HK, Jensen MO, Wickramasinghe R: "In Vitro Blood Clot Formation and Dissolution for Testing New Stroke Treatment Devices" *Biomedicines* 03 August 2022, 10(8), 1870. https://doi.org/10.3390/biomedicines10081870, Pages 1-9, PMID: 36009417; PMCID: PMC9405282
- 14) Crimmins LD, Bonvillain GP, Henry KR, Hayat MA, Villafranca AAA, Stephens SE, Jensen HK, Sanford JA, Wu J, Sexton KW, Jensen MO: "Critical Information from High Fidelity Arterial and Venous Pressure Waveforms During Anesthesia and Hemorrhage" *Cardiovascular Engineering and Technology*, 2022 Dec;13(6):886-898. doi: 10.1007/s13239-022-00624-4. Epub 2022 May 11.; PMID: 35545752
- 15) Elmer KM, Bean MJ, Uretsky BF, Jensen HK, Jensen MO: "Customizable Angioplasty Balloon Forming Machine: Towards Precision Medicine in Coronary Bifurcation Lesion Interventions", *Journal of Cardiovascular Translational Research*; 2022 Oct;15(5). doi: 10.1007/s12265-022-10229-w; Pages 1119-1128. PMID: 35312960
- 16) Henson JC, Brickell A, Kim J-W, Jensen HK, Mehta JL, Jensen MO: "PEGylated Gold Nanoparticle Toxicity in Cardiomyocytes: Assessment of Size, Concentration, and Time Dependency" *IEEE Transactions on Nanobioscience*, 2022 Jul;21(3): Pages 387-394; doi: 10.1109/TNB.2022.3154438. PMID: 35201990.

- 17) Laughlin M, Kapales M, Thakali K Girardot M, Jensen MO: "Glutaraldehyde Fixation of Venous Valve Tissue: A Benchmark for Alternative Fixation Methods" *J Phlebology*, 2022 May; 37(4):296-302, PMID: 35249404
- 18) Stephens SE, Ingels NB, Wenk JF, Jensen MO: "Alumina as a Computer Tomography Soft Material and Tissue Fiducial Marker" *Experimental Mechanics*, 62, pages 879–884 (2022); doi: 10.1007/s11340-022-00825-x, PMID: 36034684 PMCID: PMC9400951
- 19) Stephens SE, Kammien AJ, Paris JC, Applequist AP, Ingels NB, Jensen HK, Rodgers DE, Cole C, Wenk JF, Jensen MO: "In Vitro Mitral Valve Model with Unrestricted Ventricular Access: Using Vacuum to Close the Valve and Enable Static Trans-mitral Pressure" *Journal of Cardiovascular Translational Research*, PMID: 34993757, 2022 Aug;15(4):845-854, Springer Nature Sharing Link: <https://rdcu.be/cEvBo>
- 20) Al-Alawi AZ, Henry KR, Crimmins LD, Bonasso PC, Hayat MA, Dassinger MS, Burford JM, Jensen HK, Wu J, Sexton KW, Jensen MO: "Anesthetics Affect Peripheral Venous Pressure Waveforms and the Cross-Talk with Arterial Pressure", *J Clin Monit Comput*. 2022 Feb;36(1):147-159. PMID: 33606187, PMCID: PMC8894218
- 21) Gal DB, Lechich KM, Jensen HK, Millett PC, Bolin E, Daily J, Stephens S, Jensen MO, Collins RT: "The Sino-tubular Junction-to-Aortic Annulus Ratio Predicts Supravalvar Aortic Stenosis Severity in Williams Syndrome" *Am J Cardiol*. 2022 Feb 1;164:118-122; PMID: 34815057
- 22) Ilkjaer C, Ropcke DM, Skov SN, Tjornild MJ, Vibaek A, Jensen MO, Nielsen SL: "Functional and Biomechanical Effects of Ring Annuloplasty on Tissue-Engineered Tricuspid Tube-Graft" *The Journal of Heart Valve Disease (Published 2021; backdated in journal to "2018-19")*;27:259-268
- 23) Laughlin M, Stephens S, Hestekin J, Jensen M: "Development of Custom Cardiovascular Flow Phantoms with Tissue-Mimicking Gel", *Cardiovascular Engineering and Technology*, Published: 02 June 2021, Pages 1-13, PMID: 34080171, <https://doi.org/10.1007/s13239-021-00546-7>
- 24) Stephens SE, Bean M, Surber H, Ingels NB, Jensen HK, Liachenko S, Wenk JF, Jensen MO: "MicroCT Imaging of Heart Valve Tissue in Fluid", *Sp. Iss. Experimental Advances in Cardiovascular Biomechanics, Experimental Mechanics*, 2021 Jan, volume 61 issue 1, pages 253–261, PMID: 34326554 PMCID: PMC8315378 <https://doi.org/10.1007/s11340-020-00667-5>
- 25) Hayat MA, Wu J, Bonasso PC, Sexton KW, Jensen HK, Jensen MO: "Unsupervised Anomaly Detection in Peripheral Venous Pressure Signals with Hidden Markov Models" *Biomedical Signal Processing and Control*, Volume 62, September 2020, Pages 1-9, <https://doi.org/10.1016/j.bspc.2020.102126>
- 26) Laughlin M, Stephens S, Jensen H, Jensen M, Millett P: "Fluid-Structure Interaction Modeling and Validation of Idealized Left Ventricular Blood Flow" *Applications of Computational Fluid Dynamics in Medicine and Biomedical Systems 2020*, Vol 3, Paper No: FEDSM2020-20339, V003T05A004; 8 pages, <https://doi.org/10.1115/FEDSM2020-20339>, Published Online: October 12, 2020
- 27) Collins RT; Laughlin M; Lang S; Bolin E; Daily J; Jensen H; Jensen M: "Real-Time Transthoracic Vector Flow Imaging of the Heart in Pediatric Patients" *Progress in Pediatric Cardiology* 2019, Volume 53, June 2019, Pages 28-36. DOI: <https://doi.org/10.1016/j.ppedcard.2019.02.003>

- 28) Easson G, Laughlin M, Jensen H, Haney K, Girardot M, Jensen M: "Performance Changes of Venous Valves following Tissue Treatment with Novel In Vitro System"; *J Phlebology*. 2019 Jun;34(5):347-354. PMID: 30336758
- 29) Bonasso PC; Sexton KW; Mehl SC; Golinko MS; Jensen MO; Wu J; Smith SD; Burford JM; Dassinger MS: "Lessons learned measuring peripheral venous pressure waveforms in an anesthetized pediatric population." *Biomedical Physics & Engineering Express*, 28 March 2019, Volume 5, Number 3. <https://doi.org/10.1088/2057-1976/ab0ea8>
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- 15) Morten Jensen: Using National Instruments System Identification, Control Design and Simulation Products for Designing and Testing a Controller for an Unidentified System. *NI Developer Zone, Jan 2005.*
- 16) Jensen, Morten: SISO Plant Simulator for Evaluating the NI LabVIEW Control Design and Simulation Bundle for Designing and Testing a Controller to an Unidentified System. *NI Developer Zone, May 2005.*
- 17) Morten Jensen, Ash Prabala, Doug Benson, William Bridson, Joseph Corsi: Automating Fluorescent Imaging Techniques. *National Instruments Online Developer Zone, July 2004.*
- 18) Guettler RD, Saxena R, Jensen MO. Bacterial Colony and Plaque Picking: An Automated Solution for DNA sample preparation (Cover Article). *Scientific Computing and Instrumentation Sep. 2002 pg. 12-22.*
- 19) Min J. Yang, Ph.D., Ron Bonner, Ph.D., Morten Jensen: Vision in Mass Spectrometry. *Scientific Computing and Instrumentation Sep. 2002 pg. 18-24.*
- 20) Jensen, Morten: Calculating Camera Sensor Resolution and Lens Focal Length. *National Instruments Developer Zone, October 2001.*

Books and Book Chapters

- 1) Henson J, Jensen H, Balachandran K, Rao R, Kim J-W, Jensen M: "Cues from the Nano-environment: The role of Nanomaterials in Stem Cell Differentiation and Stem Cell Tissue Engineering" *Soft Matter and Biomaterials in the Nanoscale*, Copyright 2020, p. 361-400
- 2) Jensen M, Siefert A, Okafor I, Yoganathan AP: "Measurement technologies for heart valve function", Chapter in "Advances in Heart Valve Biomechanics: Valvular Physiology, Mechanobiology, and Bioengineering", 1st Edition released on February 14, 2019. P 1-Xs ISBN-10: 3030019918
- 3) Raghav V, Jensen M, Arjunon S, Teoh SH, Yoganathan AP: "Heart Valve Prostheses and Repair Devices", *Materials Science and Materials Engineering - Comprehensive Structural Integrity*, 2018(2017), by Editors-in-Chief: I. Milne, R. O. Ritchie, and B. Karihaloo. ISBN: 978-0-08-043749
- 4) Alfaori Q, Saxena A, Jensen HA, Jensen MO: "Collagen Degradation Effect on Rupture in Abdominal Aortic Aneurysm", *Advances in Structural Integrity* 2017, ISBN 978-981-10-7197-3
- 5) Jensen H, Martin E, Jensen M, Rome F, Di Carlo A, Kim JW, Mehta JL. "Nanotechnology-Based Stem Cell Applications and Imaging". In: "Imaging in Stem Cell Transplant and Cell-based Therapy (In: Stem Cell Biology and Regenerative Medicine)". *Springer Book Series*. June 2017, ISBN 978-3-319-51831-2, DOI 10.1007/978-3-319-51833-6
- 6) Sasa Grbic, Thomas F. Easley, Tommaso Mansi, Charles H. Bloodworth, Eric L. Pierce, Ingmar Voigt, Dominik Neumann, Julian Krebs, David D. Yuh, Morten O. Jensen, Dorin Comaniciu, Ajit P. Yoganathan: "Multi-modal Validation Framework of Mitral Valve Geometry and Functional Computational Models" *Statistical Atlases and Computational Models of the Heart - Imaging and Modeling Challenges 2015*, pp 239-248.
- 7) Dremstrup, Kim; Rees, Steve; Jensen, Morten Ølgaard (Eds.): "15th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics", 1st Edition., 2011, XVI, 280 p. 245 illus. (Springer eBook link: <http://dx.doi.org/10.1007/978-3-642-21683-1>).
- 8) Jensen, Morten: "Ensemble Averaging of Physiologic Signals: A LabVIEW based Software Package Assisting the Analysis of Cyclic Data", *Book Chapter in "Virtual Bio-Instrumentation"* by Jon B. Olansen and Eric Rosow, Prentice Hall 2002.
- 9) Jensen Morten: "Stentless Mitral Valve Fixation: Impact on Hemodynamic Performance", *Master's Thesis* 2000.
- 10) Jensen Morten: "Mitral Valve Force Balance: The Left Ventricular Tug of War", *PhD Thesis* 2008.
- 11) Jensen Morten: "Biomechanical Aspects of Mitral Valve Function and Repair", *DMSc (Dr.Med.) Thesis* 2015.

Conference: Keynote Addresses / Invited Lectures

- 1) Jensen, M: "Biomechanical Aspects of FMR". *2019 Annual Meeting of the Heart Valve Society (HVS), Apr 11 - 13, 2019, Sitges, Barcelona, Catalonia, Spain. Mitral Valve Session Discussant Panel with Discussants: Jerry Braun, MD, PhD, Morten O. Jensen, DrMed, PhD, Resham Barauh, MD, Michael Borger, MD, Vinod Thourani, MD, Mark Ratcliffe, MD*
- 2) Jensen, M (f. Yoganathan, A): "Cardiovascular Devices: From the Bench and Computer to Bedside/Bassinets" *2014, BMES Annual Meeting October 22-25, 2014, San Antonio, Texas.*
- 3) Morten Jensen, PhD; Jesper Hønge, MD: "Cardiac Dynamics", *15th Nordic – Baltic Conference on Biomedical Engineering and Medical Physics, June 14th - 17th, 2011, Aalborg, Denmark.*
- 4) Morten Jensen: "Inspiration and Recognition of Science and Technology", *(FIRST) LEGO League, Herning, Denmark, October 1st 2010.*
- 5) Morten Jensen: "Computer based Measurements in Experimental Heart Surgery", *National Instruments Annual Conference, Hørsholm, Denmark, May 6th 2010.*
- 6) Morten O. Jensen: What Forces Act on Rigid Mitral Annuloplasty Rings? Implications for Annuloplasty Ring Designs. *Keynote Address at the Robert Levine Symposium on New Frontiers in Mitral Valve Repair.*
- 7) *Targeting the Natural History of Mitral Valve Regurgitation, Tuesday January 20th, 2009, Aarhus, Denmark.*

Conference: Abstracts: Oral Presentations

- 8) Elmer K, Uretsky, B, Jensen M: "Dual-Guidewire Coronary Artery Balloon for Bifurcation Lesions". *37th Annual Transcatheter Cardiovascular Therapeutics Conference (TCT 2025), October 25-28, 2025, San Francisco, California, USA*
- 9) C Caffin, B Scott, S Stephens, R Saunders, J Wu, H Jensen, K. Sexton, MO Jensen: "In-Vitro Model of Peripheral Blood Vessels for Pressure Waveform Analysis and Medical Device Testing", *2025 ASME SB3C Summer Bioengineering Conference (SBC2025), June 22-25, 2025, Santa Ana Pueblo, New Mexico, USA*
- 10) Ancker MV, Stephens SE, Ingels NB, Wenk JF, Jensen MO: "Marginal Chordae Force Data in a Physiological In Vitro Mitral Valve Setup" *Biomechanics, Bioengineering and Biotransport Conference (SB3C2024), June 13th, 2024, Lake Geneva, WI, USA*
- 11) Jack J, Jensen M, Collins RT, Chan FP, Millett P: "Numerical Studies of Hemodynamic Flow in the Aortic Vessel of Patients With Congenital Heart Disease" *American Society of Mechanical Engineers 2023 International Mechanical Engineering Congress and Exposition (IMECE2023-111933), New Orleans, LA, USA October 29 – November 2, 2023.*
- 12) Phan T, Le D, Brijesh P, Adjeroh D, Wu J, Jensen MO, Le N: "Multimodality Multi-Lead ECG Arrhythmia Classification using Self-Supervised Learning", *2022 IEEE-EMBS International Conference on Biomedical and Health Informatics and Wearable and Implantable Body Sensor Networks, Ioannina, Greece, September 27-30, 2022*

- 13) Stephens S, Ingels N, Wenk J, Jensen M: "Towards Computational Modeling of Cardiac Valve Tissue: Rapid High Fidelity Valve Fiducial Localization Utilizing MicroCT Acquired Stereography", *16th U.S. National Congress on Computational Mechanics Chicago, IL, July 25-29, 2021*
- 14) Elmer KM, Bean MJ, Uretsky BF, Jensen MO: "Balloon Forming Machine for Customizing Treatment of Coronary Artery Disease" *SB3C2021 Summer Biomechanics, Bioengineering and Biotransport Conference, June 15, 2021: Conference Session: Device, Design and Rehabilitation II*
- 15) Gal DB, Collins RT, Stephens S, MacMillen K, Jensen HK, Bolin E, Daily J, Millett P, Jensen M,: "A Patient-based Computational Model that Predicts Pressure Drop in Supravalvar Aortic Stenosis in Patients with Williams Syndrome", *American Association of Pediatrics, San Diego, CA, Oct. 2-6, 2020*
- 16) Gal DB, MacMillen K, Jensen M, Jensen H, Bolin E, Daily J, Collins RT: "Percent Change in Diameter from Aortic Annulus to Sinotubular Junction Predicts Supravalvar Aortic Stenosis Gradient in Williams Syndrome" *American Society of Echocardiography, Denver, Colorado, June 19-22, 2020*
- 17) Crimmins LD, Henry KR, Hayat MA, Bonasso PC, Wu J, Jensen HK, Sexton KW, Jensen MO: "Dehydration and Anesthesia Influence on the Relationship Between Arterial and Venous Pressure Waveforms", *SB3C2020 Summer Biomechanics, Bioengineering and Biotransport Conference June 17-20, Vail, CO, USA*
- 18) Maxwell J. Bean, David Jiang, Ragul Manoharan, Abigail E. Nowell, Barry Uretsky, Hanna K. Jensen, Lucas H. Timmins, Morten Ø. Jensen: "Modeling Percutaneous Intervention of Coronary Artery Bifurcations", *SB3C2020 Summer Biomechanics, Bioengineering and Biotransport Conference June 17-20, Vail, CO, USA*
- 19) David Jiang, Brandon K. Zimmerman, Maxwell J. Bean, Steve A. Maas, Morten Ø. Jensen, Gerard A. Ateshian, Lucas H. Timmins: "Towards the Establishment of Lesion-Specific Stenting Strategies: Validation of a Coupled Balloon-Stent Finite Element Framework For Vascular Stent Deployment", *SB3C2020 Summer Biomechanics, Bioengineering and Biotransport Conference June 17-20, Vail, CO, USA*
- 20) Megan Laughlin, Sam Stephens, Hanna Jensen, Morten Jensen, Paul Millett: "Fluid-Structure Interaction Modeling and Validation of Idealized Left Ventricular Blood Flow". *American Society of Mechanical Engineers FEDS Meeting, Orlando, FL July 12-16*
- 21) Joseph Batta-Mpouma, Cody Chivers, Garrett Huffstutler, Hanna K. Jensen, Morten O. Jensen, Jangho Kim, and Jin-Woo Kim: "Hybrid Composites of Cellulose Nanocrystal and Polycaprolactone as Scaffold Materials for Cardiomyocyte Regeneration" *13th IEEE International Conference on Nano/Molecular Medicine & Engineering (IEEE-NANOMED 2019), 21-24 November 2019, Gwangju, Korea.*
- 22) Jensen M, Wenk J: "Optimizing Imaging and Force Validation for Computational Modeling of Cardiac Valve Function and Intervention" *15th U.S. Congress on Computational Mechanics, Minisymposium: Computational Modeling of Cardiac Valve Function and Intervention, Austin, Texas, USA, July 28-August 1, 2019*

- 23) Bonasso, PC; Sexton, KW; Hayat MA; Al-Alawi A; Jingxian W; Jensen, HK; Jensen, MO; Smith SD; Burford, JM; Dassinger, MS: "Venous physiology predicts anesthetic induced hypotension in infants" American College of Surgeons Clinical Congress, Boston MA, October 2018
- 24) Stephens SE, Liachenko S, Wenk JF, Jensen MO: "In vitro left heart system with 7T MRI provides high resolution mitral valve 3D imaging datasets for computational modeling", *SB³C2017 Summer Biomechanics, Bioengineering and Biotransport Conference, June 21, 2017, Tucson, Arizona, USA*
- 25) Qusay Alfaori, Ashok Saxena, Hanna Jensen, Morten Jensen: "Rupture Prediction in Abdominal Aortic Aneurysms". *43rd Annual Symposium on Vascular and Endovascular Issues, November 15 - 19, 2015, New York, NY, USA.*
- 26) Skov SN, Ropcke DM, Tjornild MJ, Ilkjaer C, Rasmussen J, Nygaard H, Jensen MO, Nielsen SL: "Semi-rigid Mitral Annuloplasty Rings Improves Myocardial Stress Adaptation Compared to a Rigid Ring" *30th Annual Meeting of The European Association for Cardio-Thoracic Surgery, October 1-5, 2016, Barcelona, Spain*
- 27) Qusay Alfaori, Ashok Saxena, Hanna Jensen and Morten Jensen: "Rupture in Abdominal Aortic Aneurysm", *Proceedings of First Structural Integrity Conference and Exhibition (SICE-2016), Bangalore, India, July 4-6, 2016*
- 28) Pantoja JL, Morgan AE, Ge L, Grossi EA, Weinsaft JW, Jensen MO, Levine RA, Ratcliffe MB: "Undersized Ring Annuloplasty Increases Strain in the Left Ventricle: Finite Element Analysis", *2nd Annual Meeting of the Heart Valve Society, March 17-19, 2016, New York City, NY.*
- 29) Skov SN, Ropcke DM, Ilkjaer C, Rasmussen J, Tjoernild MJ, Nygaard H, Jensen MO, Nielsen SL: "What are the Remodelling Forces of a Rigid Mitral Annuloplasty Ring – A Potential Risk Factor for Ring Dehiscence in Mitral Valve Repair?", *2nd Annual Meeting of the Heart Valve Society, March 17-19, 2016, New York City, NY.*
- 30) DM Røpcke, C Ilkjær, T Hejslet, AV Sørensen, H Jensen, MO Jensen, VE Hjortdal, SL Nielsen: "Functional and biomechanical performance of stentless extracellular matrix tricuspid tubegraft in pigs" *26th annual meeting of the Scandinavian Society for Research in Cardiothoracic Surgery, Geilo, Norway, February 11th –13th, 2016.*
- 31) SN Skov, DM Røpcke, C Ilkjær, J Rasmussen, MJ Tjørnild, H Nygaard, MO Jensen, SL Nielsen: "What are the remodelling forces of a rigid mitral annuloplasty ring – a potential risk factor in mitral valve repair?" *26th annual meeting of the Scandinavian Society for Research in Cardiothoracic Surgery, Geilo, Norway, February 11th –13th, 2016.*
- 32) C Ilkjær, DM Røpcke, SN Skov, MJ Tjørnild, AV Sørensen, MO Jensen, SL Nielsen: "Functional and biomechanical effects of conventional ring annuloplasty on a novel tissue engineered tricuspid tube graft prosthesis—preliminary results" *26th annual meeting of the Scandinavian Society for Research in Cardiothoracic Surgery, Geilo, Norway, February 11th –13th, 2016.*
- 33) Qusay Alfaori, Ashok Saxena, Hanna Jensen, Morten Jensen: "Rupture in Abdominal Aortic Aneurysms". *42nd Annual Symposium on Vascular and Endovascular Issues, November 17 - 21, 2015, New York, NY, USA.*

- 34) C.H. Lee, C.H. Bloodworth, M.O. Jensen, A.P. Yoganathan, M.S. Sacks: "Effects of leaflet microstructure and constitutive model on the closing behavior of the mitral valve" *Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C2015), Snowbird, UT, Jun 17-20, 2015.*
- 35) Skov, Søren Nielsen; Røpcke, Diana Mathilde; Ilkjær, Christine; Rasmussen, Jonas; Tjørnild, Marcell Juan; Nygaard, Hans; Jensen, Morten Ølgaard Jegstrup; Nielsen, Sten Lyager: "Biomechanical Features of a Rigid Remodeling Versus a Fully Flexible Mitral Annuloplasty Ring" *33rd National Meeting at the Danish Society for Biomedical Engineering, September 17th, 2015, Braedstrup, Denmark.*
- 36) Amir H. Khalighi, Andrew Drach, Chung-Hao Lee, Charles Bloodwoth, Eric L. Pierce, Morten O. Jensen, Robert C. Gorman, Joseph H. Gorman, Ajit P. Yoganathan, and Michael S. Sacks: "Development of a Population-Averaged Model of the Complete Mitral Valve Geometry", *Biomedical Engineering Society 2015 Annual Meeting, October 7-9, Tampa, Florida, USA.*
- 37) Skov, Søren Nielsen; Røpcke, Diana Mathilde; Ilkjær, Christine; Rasmussen, Jonas; Tjørnild, Marcell Juan; Nygaard, Hans; Jensen, Morten Ølgaard Jegstrup; Nielsen, Sten Lyager: "Rigid Remodelling Versus Fully Flexible Mitral Annuloplasty Rings - A Novel Assessment Tool for Biomechanical Characterization" *29th Annual Meeting of the European Association For Cardio-Thoracic Surgery (EACTS), Amsterdam, The Netherlands, 3 - 7 October 2015.*
- 38) Milan Toma, Morten O. Jensen, Daniel R. Einstein, Ajit P. Yoganathan, Richard P. Cochran, Karyn S. Kunzelman: "Fluid-Structure Interaction Analysis of Mitral Valve Forces Using a Comprehensive Model With 3D Chordal Structure: Synergy of Modeling and Experiments", *SB3C2015 Summer Biomechanics, Bioengineering and Biotransport Conference June 17-20, 2015, Snowbird Resort, Utah, USA.*
- 39) Charles H. Bloodworth, Eric L. Pierce, Thomas F. Easley, Milan Toma, Morten O. Jensen, Ajit P. Yoganathan: "Capturing Detailed 3D Mitral Valve Geometry for Computational Valve Modeling" *SB3C2015 Summer Biomechanics, Bioengineering and Biotransport Conference June 17-20, 2015, Snowbird Resort, Utah, USA.*
- 40) Toma M; Jensen MO; Einstein DR; Yoganathan AP; Cochran RP; Kunzelman KS: "Validating Fluid Structure Interaction in Medical Device Design with Force Measurements", *2015 BMES Frontiers in Medical Devices Conference: Innovations in Modeling and Simulation, May 18-20, 2015, Washington DC.*
- 41) Chung-Hao Lee, Charles H. Bloodworth, Morten O. Jensen, Ajit P. Yoganathan, Michael S. Sacks: "Predictive Computational Simulations of the Functioning Mitral Valve" *2015 BMES Frontiers in Medical Devices Conference: Innovations in Modeling and Simulation, May 18-20, 2015, Washington DC.*
- 42) Skov, Søren Nielsen; Røpcke, Diana Mathilde; Ilkjær, Christine; Tjørnild, Marcell Juan; Nygaard, Hans; Jensen, Morten Ølgaard Jegstrup; Nielsen, Sten Lyager: "How to measure the Forces in Mitral Annuloplasty Rings" *3rd Iranian Cardiovascular Joint Congress, 3rd-6th of March 2015, Teheran, Iran.*
- 43) Skov, Søren Nielsen; Røpcke, Diana Mathilde; Siefert, Andrew W; Ilkjær, Christine; Tjørnild, Marcell Juan; Nygaard, Hans; Nielsen, Sten Lyager; Jensen, Morten Ølgaard Jegstrup: "New concept for quantifying two-dimensional forces acting on an implanted mitral annuloplasty ring" *3rd Iranian Cardiovascular Joint Congress, 3rd-6th of March 2015, Teheran, Iran.*

- 44) SN Skov, DM Røpcke, AW Siefert, C Ilkjær, MJ Tjørnild, A Yoganathan, H Nygaard, SL Nielsen, M Jensen: "New concept for quantifying two-dimensional forces acting on an implanted mitral annuloplasty ring" *25th annual meeting of the Scandinavian Society for Research in Cardiothoracic Surgery, Geilo, Norway, February 12th –14th, 2015.*
- 45) DM Røpcke, C Ilkjær, T Hejslet, AV Sørensen, H Jensen, MOJ Jensen, VE Hjortdal, SL Nielsen: "Functional and biomechanical performance of stentless extracellular matrix tricuspid tubegraft in pigs", *25th annual meeting of the Scandinavian Society for Research in Cardiothoracic Surgery, Geilo, Norway, February 12th –14th, 2015.*
- 46) J Grønlund, N Telinius, SN Skov, MO Jensen, VE Hjortdal: "A validation study of near infrared fluorescence imaging of lymphatic vessels in humans", *25th annual meeting of the Scandinavian Society for Research in Cardiothoracic Surgery, Geilo, Norway, February 12th –14th, 2015.*
- 47) Sasa Grbic, Thomas Easley, Tommaso Mansi, Dominik Neumann, Eric Pierce, Morten Jensen, Charlie Bloodworth, Andrew W. Siefert, Julian Krebs, David D. Yuho, Ajit P. Yoganathan, Dorin Comaniciu: "Multi-Modal Validation Framework of Mitral Valve Geometry and Biomechanical Models", *2014 BMES Annual Meeting October 22-25, 2014, San Antonio, Texas.*
- 48) C. H. Bloodworth IV, E. L. Pierce, T. F. Easley, M. Toma, A. Khalighi, C-H. Lee, M. Sacks, A. W. Siefert, M. Ø. Jensen, A. P. Yoganathan: "Design of an In Vitro Simulation Pipeline for the Development of Computational Mitral Valve Modeling", *2014 BMES Annual Meeting October 22-25, 2014, San Antonio, Texas.*
- 49) DM Ropcke, T Hejslet, AV Sørensen, C Ilkjær, H Jensen, MOJ Jensen, SL Nielsen: "Characterization of Extracellular Matrix Tricuspid Tubegrafts with Comparison to Native Tricuspid Valves in a Porcine Model", *28th EACTS Annual Meeting, Milan, Italy 2014 11-15 October 2014.*
- 50) Søren N. Skov, Diana M. Røpcke, Andrew W. Siefert, Christine Ilkjær, Marcell J. Tjørnild, Ajit Yoganathan, Hans Nygaard, Sten L. Nielsen, Morten Jensen: " New Concept For Measuring The Forces In Mitral Valve Annuloplasty Rings" *32nd National Meeting at the Danish Society for Biomedical Engineering, September 17th, 2014, Braedstrup, Denmark.*
- 51) Madonna Lee, Andrew Siefert, Eric Pierce, Chikashi Aoki, Satoshi Takebayashi, Morten Jensen, Robert Gorman, Ajit Yoganathan, Joseph Gorman: "Mitral Annuloplasty Cyclic Suture Forces: True-sized Versus Undersized Rings", *AATS Cardiovascular Valve Symposium, Istanbul, Turkey, September 4-6 2014.*
- 52) Jensen MO; Siefert AW; Toma M; Gorman RC; Gorman III JH; Yoganathan AP: "Utilizing Computational and Experimental Tools in Tandem for Development and Evaluation of Mitral Valve Devices" *FDA Medical Device and Innovation Consortium Annual Meeting, Washington, DC, June 2014.*
- 53) SN Skov, K Telling, D Røpcke, C Ilkjær, MJ Tjørnild, H Nygaard, SL Nielsen, MØ Jensen: "Simultaneous in- and out-of-plane Mitral Valve Annular Force Measurements" *24th annual meeting of the Scandinavian Society for Research in Cardiothoracic Surgery, Geilo, Norway, February 13th –15th, 2014.*

- 54) C Ilkjær, MO Jensen, JL Hønge, ES Kragnæs, SL Nielsen: "Effect of annuloplasty ring implantation on the tricuspid valvular complex dynamics and geometry" *24th annual meeting of the Scandinavian Society for Research in Cardiothoracic Surgery, Geilo, Norway, February 13th -15th, 2014.*
- 55) H Jensen, MO Jensen, F Waziri, JL Hønge, E Sloth, M Fenger-Gron, SL Nielsen: "Transapical neochoord implantation: Is tension of artificial chordae tendineae dependent on insertion site?", *62nd Annual Meeting of Scandinavian Association for Thoracic Surgery, Aarhus, Denmark August 22nd - 24th, 2013.*
- 56) Diana M. Ropcke, Sten L. Nielsen, Henrik Jensen, Morten Ø. J. Jensen, Jesper L. Hønge, Vibeke E. Hjortdal.: "Total Tricuspid Valve Reconstruction Using Porcine Extracellular Matrix: Functional and Biomechanical Aspects" *7th Biennial Congress of the Society for Heart Valve Disease and the Heart Valve Society of America, June 25th, 2013, Venice, Italy.*
- 57) CH Ilkjær, JL Hønge, MO Jensen, SL Nielsen: "Effect of ring annuloplasty on tricuspid valvular complex dynamics and geometry" *23rd annual meeting of the Scandinavian Society for Research in Cardiothoracic Surg., Saturday, Feb 9th, 2013, Geilo, Norway.*
- 58) H Jensen, MO Jensen, F Waziri, JL Hønge, E Sloth, M Fenger-Gron, SL Nielsen: "Transapical neochoord implantation: Is tension of artificial chordae tendineae dependent on insertion site?" *23rd annual meeting of the Scandinavian Society for Research in Cardiothoracic Surg., Friday, Feb 8th, 2013, Geilo, Norway.*
- 59) DM Røpcke, VE Hjortdal, GE Toft, MO Jensen, SD Kristensen: "Remote ischemic preconditioning reduces thrombus formation in the rat" *23rd annual meeting of the Scandinavian Society for Research in Cardiothoracic Surg., Friday, Feb 8th, 2013, Geilo, Norway.*
- 60) Røpcke DM, Hjortdal VE, Toft GE, Jensen MO, Kristensen SD "Remote Ischemic Preconditioning Reduces Thrombus Formation In The Rat", *49th annual Meeting of The Society of Thoracic Surgeons, January 26-30 2013, Los Angeles, California, USA.*
- 61) TH Jorgensen, IJ Nielsen, JL Hønge, H Nygaard, SL Nielsen, MO Jensen: "Mitral Valve Leaflet Patch Augmentation Reduces Regurgitant Orifice Area" *30th National Meeting at the Danish Society for Biomechanics, October 26th, 2012, Aarhus, Denmark.*
- 62) TH Jorgensen, IJ Nielsen, JL Hønge, H Nygaard, SL Nielsen, MO Jensen: "Mitral Valve Leaflet Patch Augmentation Reduces Regurgitant Orifice Area" *30th National Meeting at the Danish Society for Biomedical Engineering, September 19th, 2012, Braedstrup, Denmark.*
- 63) MO Jensen, JA Benediktsson, JL Hønge, H Nygaard, SL Nielsen: "Downsizing the Mitral Valve Annulus: Impact on Tissue Biomechanics" *30th National Meeting at the Danish Society for Biomedical Engineering, September 19th, 2012, Braedstrup, Denmark.*
- 64) Røpcke DM, Hjortdal VE, Toft GE, Jensen MO, Kristensen SD "Remote arterial preconditioning reduces thrombus formation in the rat", *4th Joint Scandinavian Conference in Cardiothoracic Surgery, Vilnius, Lithuania, August 16th-18th 2012.*

- 65) Henrik Jensen, Morten O. Jensen, Stefan Vind-Kezunovic, Rikke Vestergaard, Steffen Ringgaard, Morten H. Smerup, Jesper L. Hønge, J. Michael Hasenkam, Sten L. Nielsen: "Papillary Muscles Relocation Stitches – What are the Cyclic Tension Alterations Imposed on the Myocardium?" *Fourth Annual Joint Scientific Meeting of the Heart Valve Society of America and Society for Heart Valve Disease, April 12th, 2012, New York, NY, USA.*
- 66) Hønge JL, Askov JB, Jensen MOJ, Hasenkam JM, Nielsen SL: "Effect of Mitral Ring Flexibility on Chordal Force balance and Mitral Annular Geometry", *Fourth Annual Joint Scientific Session of the Heart Valve Society of America and Society for Heart Valve Disease, Valves in the Heart of the Big Apple VII, April 12-14, 2012, New York, NY, USA.*
- 67) A Rahmani, AQ Rasmussen, B Ostli, J Vester-Petersen, JB Askov, JL Hønge, RA Levine, A Hagège, SL Nielsen, H Nygaard, MO Jensen: "Mitral valve mechanics following posterior leaflet patch augmentation", *21st meeting of the Scandinavian Society for Research in Cardiothoracic Surg., Thursday, Feb 3rd, 2011, Geilo, Norway.*
- 68) H Jensen, MO Jensen, MH Smerup, S Ringgaard, NT Andersen, P Wierup, JM Hasenkam, SL Nielsen: "Does down-sized ring annuloplasty induce papillary muscle relocation in ischemic mitral regurgitation?" *21st meeting of the Scandinavian Society for Research in Cardiothoracic Surg., Thursday, Feb 3rd, 2011, Geilo, Norway.*
- 69) JB Askov, JL Hønge, MO Jensen, H Nygaard, JM Hasenkam, SL Nielsen: "Novel Papillary Muscle Force Transducer: Tests and Results" *28th National Meeting at the Danish Society for Biomedical Engineering, September 23rd, 2010, Braedstrup, Denmark.*
- 70) JB Askov, JL Hønge, MO Jensen, H Nygaard, JM Hasenkam, SL Nielsen: Novel Papillary Muscle Force Transducer: Initial Tests and Results. *6th World Congress on Biomechanics, Aug. 1-6, 2010, Singapore.*
- 71) JB Askov, JL Hønge, MO Jensen, H Nygaard, JM Hasenkam, SL Nielsen: Novel Papillary Muscle Force Transducer: Initial Tests and Results. *Biomedical Engineering Society 2010 Annual Meeting, October 6-9, Austin, Texas, USA.*
- 72) Jensen, MO; Nielsen, JVD; Amstrup, M; Jensen, SH; Rasmussen, M: Optimization of Flow Conditions for Aortic Cannulas. *30th Scandinavian Conference in ExtraCorporal Technology, Oslo, Norway, 27th Aug, 2010.*
- 73) JB Askov, MO Jensen, J Hønge, H Nygaard, JM Hasenkam, SL Nielsen: "New Miniature Chordal Force Transducer for Measurements In Vivo", *4th Biennial Heart Valve Biology and Tissue Engineering Meeting, Monday, March 8th, 2010, Hilton Head Island, SC, USA.*
- 74) Albert Hagege and Morten Jensen: "Surgical Models of Mitral Valve Prolapse", *Leducq MITRAL Transatlantic Network of Excellence, Nantes, France, May 2010.*
- 75) MOJ Jensen, H Jensen, RA Levine, AP Yoganathan, H Nygaard, SL Nielsen, JM Hasenkam: "What Forces are Transmitted from the Mitral Valve Apparatus to the Papillary Muscles In Vivo". *19th World Congress of the World Society of Cardio-Thoracic Surgeons, Buenos Aires, Argentina, November 4th, 2009.*
- 76) JB Askov, MO Jensen, H Nygaard, JM Hasenkam, SL Nielsen: "New Miniature Chordal Force Transducer for In Vivo Measurements" *27th National Meeting at the Danish Society for Biomedical Engineering, September 23rd, 2009, Braedstrup, Denmark.*

- 77) Nielsen, PF; Funder, JA; Jensen, MO; Nygaard, H: Influence of Venous Reservoir Level on Microbubbles in Cardiopulmonary Bypass, *13th European Congress on Extracorporeal Circulation Technology, June 17th-20th, 2009, Aarhus, Denmark.*
- 78) Morten Ø. Jensen, Henrik Jensen, Jesper B. Askov, Robert A. Levine, Ajit P. Yoganathan, Hans Nygaard, Sten L. Nielsen, J. Michael Hasenkam: Flexible Mitral Valve Annuloplasty Rings Provide Superior Annular Dynamics and Force Distribution. *19th Annual Meeting of The Scandinavian Society for Research in Cardio Thoracic Surgery, February 5th – 7th, 2009, Geilo, Norway.*
- 79) Jesper B. Askov, Morten Ø. Jensen, Lyager, Hasenkam, Nygaard: Impact of Mitral Annuloplasty Ring Flexibility on 3D Geometry and Stress distribution of the Mitral Valve Annulus and Leaflets. *The Robert Levine Symposium on New Frontiers in Mitral Valve Repair Targeting the Natural History of Mitral Valve Regurgitation, Tuesday January 20th, 2009, Aarhus, Denmark.*
- 80) Morten Ø. Jensen, Henrik Jensen, Morten Smerup, Robert A. Levine, Ajit P. Yoganathan, Hans Nygaard, J. Michael Hasenkam, Sten L. Nielsen: Saddle-shaped Mitral Valve Annuloplasty Rings Provide Superior Annular Force Distribution. *18th annual meeting of The Scandinavian Society for Research in Cardio Thoracic Surgery, February 2nd, 2008, Geilo, Norway.*
- 81) Morten Ø. Jensen, Henrik Jensen, Robert A. Levine, Ajit P. Yoganathan, Hans Nygaard, Sten L. Nielsen, J. M. Hasenkam: Left Ventricular Force Balance. *26th Danish Annual Congress in Biomedical Engineering, September 17, 2008, Brædstrup, Denmark.*
- 82) Jensen, Henrik; Jensen, Morten Ølgaard Jegstrup; Ringgaard, Steffen; Smerup, Morten Holdgaard; Sørensen, Thomas Sangild; Wierup, Per; Hasenkam, John Michael; Nielsen, Sten Lyager: "Geometric Culprits of Papillary Muscle Displacement in Functional Ischemic Mitral Regurgitation assessed by 3D Magnetic Resonance Imaging" *18th World Conference of the World Society of Cardio-Thoracic Surgeons (WSCTS 2008), May 3rd, 2008, Kos Island, Greece, Abstract published in Heart Surgery Forum, Vol. 11, Nr. Suppl. 1, 2008, s. 358.*
- 83) Jensen, Morten; Jensen, Henrik; Levine, Robert; Yoganathan, Ajit; Nygaard, Hans; Nielsen, Sten Lyager; Hasenkam, J. Michael: In Vivo Force Measurement on Mitral Valve Traction Suture: Insights to Left Ventricular Force Balance. *18th World Conference of the World Society of Cardio-Thoracic Surgeons (WSCTS 2008), May 3rd, 2008, Kos Island, Greece.*
- 84) Jensen, Henrik; Jensen, Morten Ølgaard Jegstrup; Ringgaard, Steffen; Smerup, Morten Holdgaard; Sørensen, Thomas Sangild; Wierup, Per; Hasenkam, John Michael; Nielsen, Sten Lyager: "Geometric culprits of papillary muscle displacement in functional ischemic mitral regurgitation assessed by 3D magnetic resonance imaging" *57th Annual Meeting of the Scandinavian Society of Thoracic Surgery and the 28th Annual Meeting of Scandinavian Society of Extra Corporeal Technology, Aug 21-23, 2008, Copenhagen, Denmark.*
- 85) Henrik Jensen, Morten Ø. Jensen, Steffen Ringgaard, Morten H. Smerup, Thomas S. Sørensen, Per Wierup, J. Michael Hasenkam, Sten Lyager Nielsen: Geometric Culprits of Papillary Muscle Displacement in Functional Ischemic Mitral Regurgitation Assessed by 3D Magnetic Resonance Imaging. *18th annual meeting of The Scandinavian Society for Research in Cardio Thoracic Surgery, Feb. 2008, Geilo, Norway.*

- 86) Morten O. Jensen, Henrik Jensen, Morten Smerup, Robert A. Levine, Ajit P. Yoganathan, Hans Nygaard, J. Michael Hasenkam, Sten L. Nielsen: Saddle-shaped Mitral Valve Annuloplasty Rings Provide Superior Annular Force Distribution. *American Heart Association Scientific Sessions, Nov. 5, 2007, Orlando, FL, USA.*
- 87) Morten O. Jensen, Henrik Jensen, Morten Smerup, Robert A. Levine, Ajit P. Yoganathan, Hans Nygaard, J. Michael Hasenkam, Sten L. Nielsen: Saddle-shaped Mitral Valve Annuloplasty Rings Improve Leaflet Coaptation Geometry. *American Heart Association Scientific Sessions, Nov. 7, 2007, Orlando, FL, USA.*
- 88) Morten Jensen: Force balance in the mitral valve annulus: How to interpret the function of annuloplasty devices. *25th Danish Annual Congress in Biomedical Engineering, Sept. 19th-20th, 2007, Brædstrup, Denmark.*
- 89) Morten Ø. Jensen, Henrik Jensen, Sten L. Nielsen, Morten Smerup, Peter Johansen, Ajit P. Yoganathan, Hans Nygaard, J. M. Hasenkam: Force Balance In The Mitral Valve Annulus: How To Interpret The Function Of Annuloplasty Devices. *Fourth Biennial Meeting of the Society for Heart Valve Disease, June 17th 2007, New York, NY, USA.*
- 90) Henrik Jensen, Morten Ø. Jensen, Morten Smerup, Won Yong Kim, Steffen Ringgaard, J. Michael Hasenkam, Sten Lyager Nielsen: 3d Cardiac MRI Assessment Of Posterior Papillary Muscle Displacement In Chronic Functional Ischemic Mitral Regurgitation. *Fourth Biennial Meeting of the Society for Heart Valve Disease, June 18th 2007, New York, NY, USA.*
- 91) M. Ø. Jensen, S. L. Nielsen, M. Smerup, P. Johansen, H. Jensen, A. P. Yoganathan, J. M. Hasenkam, H. Nygaard: New Insight into the Mitral Valve Force Balance. *Biomedical Engineering Society Annual Meeting, October 2006, Chicago, Illinois, USA.*
- 92) Morten Jensen, Jeff Buterbaugh, PhD: Recent Advancements in Fluorescence Imaging. *PittCon, March 2nd, 2005, Orlando, Florida, USA.*
- 93) Jensen, Morten: Using NI Vision and Motion for Automated Inspection of Medical Devices and Pharmaceutical Processes. *PittCon, March 7th 2004, Chicago, IL, USA.*
- 94) Morten Oelgaard Jensen: Advances in Analytical Techniques for High Throughput Screening Applications. *AOAC INTERNATIONAL Annual Meeting & Exposition, Sept. 19th-23rd, 2004, St. Louis, Missouri, USA.*
- 95) Yoganathan, A.P. and Jensen, M., Harvested Porcine Mitral Xenograft Fixation: Impact on Fluid Dynamic Performance. *4th International Symposium on Stentless Bioprostheses, May 2001, San Diego, CA, USA.*
- 96) M. Jensen, J. Lemmon, S. He, M. Weston, V. Gessaghi, R. Levine, A. Yoganathan: Bioprosthetic Valve Fixation: Adverse Hemodynamic Impact. *World Congress on Medical Physics and Biomedical Engineering, July 2000, Chicago, Illinois, USA.*
- 97) Morten O. Jensen, Ajit P. Yoganathan: Bioprosthetic Heart Valve Fixation: Adverse Hemodynamic Impact. *VIII International Symposium Cardiac Bioprostheses, Friday, November 3rd, 2000, Cancun, Mexico.*

- 98) He S., Lemmon J.D., Weston M.W., Jensen M.O., Levine R.A., and Yoganathan A.P. Functional Characteristics of the Natural Mitral Valve: An In Vitro Assessment. *Third International Symposium on Stentless Bioprostheses, May 1999, Grand Cayman Island.*
- 99) He S., Lemmon J.D., Weston M.W., Jensen M.O., Fontaine A.A., Levine R.A., and Yoganathan A.P. Mechanism of Persistent Functional Mitral Regurgitation Despite Annuloplasty: In Vitro Studies. *American Society of Echocardiography 10th Annual Scientific Sessions, June, 1999, Washington, DC, USA.*
- 100) He S., Lemmon J.D., Weston M.W., Jensen M.O., Yoganathan A.P., Levine R.A.: Mechanism of Mitral Regurgitation In Patients With Annuloplasty: In Vitro Study. *American Society of Echocardiography 10th Annual Scientific Sessions, June, 1999, Washington, DC, USA.*
- 101) He S., Lemmon J.D., Weston M.W., Jensen M.O., Fontaine A.A., Levine R.A. and Yoganathan A.P. In Vitro Engineering Study of Mitral Regurgitation. *International Forum on Ischemic Mitral Valve Regurgitation, March 1999, Nice, France.*

Conference: Abstracts & Poster Presentations

- 102) B Scott, C Caffin, S Stephens, R Saunders, J Wu, H Jensen, K. Sexton, MO Jensen: "Understanding Arterial Pressure Crossover In Peripheral Venous Pressure Signals: A Benchtop Study on Vessel Parameters", *2025 ASME SB3C Summer Bioengineering Conference (SBC2025), June 22-25, 2025, Santa Ana Pueblo, New Mexico, USA*
- 103) Wimera JR, Westman-Forbes AK, Wu J, Sexton KW, Jensen HK, Saunders E and Jensen MO: "Improved Prediction of Dehydrated Patients using IPFM-Synthesized PVP Waveforms", *The 21st Annual Meeting of the MidSouth Computational Biology and Bioinformatics Society (MCBIOS 2025), University of Utah, Salt Lake City, Utah, USA, March 27-29, 2025*
- 104) KM Elmer, BF Uretsky, A Chaus, MO Jensen: "Novel Stent Design and Prototyping Method" *Biomechanics, Bioengineering and Biotransport Conference (SB3C2024), June 12th, 2024, Lake Geneva, WI, USA*
- 105) Markham GH; Wenos CD; Jensen MO; Jensen HK; Markham LW; Brown JW; Herrmann JL: "Ross Confers More Favorable LV Remodeling Compared to Mechanical Aortic Valve"; *8th World Congress of Pediatric Cardiology and Cardiac Surgery, Washington Convention Center in Washington DC, USA, August 27 - September 1, 2023*
- 106) Nienaber T, Perez S, Stephenson K, Sanford J, Abella A, Jensen M, Sexton K: "Developing a Smart Endotracheal Tube for Pediatric Use", *Pediatric Academic Societies (PAS) 2022 Meeting, April 21-25, 2022, Denver, Colorado.*
- 107) Nienaber T, Perez S, Stephenson K, Sanford J, Abella A, Jensen M, Sexton K: "Neonatal Intubation: To Cuffed and Beyond"; *University of Arkansas for Medical Sciences College of Medicine, Pediatrics, Annual Fellows Research Day, May 2021*
- 108) Laughlin M, Kapales M, Girardot M, Jensen M: "Evaluation of Glutaraldehyde Fixation on Venous Tissue", *Biomedical Engineering Society Annual Meeting, October 6-9, 2021, Orlando, Florida*

- 109) Laughlin M, Stephens S, Hestekin J, Jensen M: "Custom Wall-Less Flow Phantoms from Tissue-Mimicking Gel for Cardiovascular Applications", *Biomedical Engineering Society Annual Meeting, October 6-9, 2021, Orlando, Florida*
- 110) Laughlin M, Dean H, Jensen H, Daily J, Collins RT, Bolin E, Jensen M: "Quantification of Pediatric Intracardiac Hemodynamic Parameters Using Blood Speckle Imaging" *Biomedical Engineering Society Annual Meeting, October 6-9, 2021, Orlando, Florida*
- 111) Stephens SE, Ingels NB, Wenk JF, Jensen MO: "Semi-Automatic Removal of Known-Geometry Elements from Image Stack Represented 3D Datasets" *SB3C2021 Biomechanics, Bioengineering and Biotransport Conference, June 16th, 2021: Conference MS Finalists Poster Session*
- 112) Gal DB, MacMillen K, Jensen HK, Millett P, Bolin E, Daily J, Jensen MO, Collins RT: "Percent Change in Diameter from Aortic Annulus to Sinotubular Junction Predicts Supravalvar Aortic Stenosis Gradient in Williams Syndrome" *American Society of Echocardiography Annual Conference – "Virtual Experience" – August 8-10, 2020*
- 113) Maxwell J. Bean, David Jiang, Sam E. Stephens, Megan E. Laughlin, Hanna K. Jensen, Barry Uretsky, Lucas H. Timmins, Morten O. Jensen. "Experimental Modeling of Coronary Intervention: Towards Computational Simulation". *SB3C2019 Summer Biomechanics, Bioengineering and Biotransport Conference June 25 -28, Seven Springs, PA, USA*
- 114) Kaylee R. Henry, Ali Z. Al-Alawi, Md Abul Hayat, Hanna K. Jensen, Jingxian Wu, Patrick C. Bonasso, Kevin W. Sexton, and Morten O. Jensen: "Isoflurane Effect on Peripheral Venous Pressure" *SB3C2019 Summer Biomechanics, Bioengineering and Biotransport Conference June 25 -28, Seven Springs, PA, USA*
- 115) Megan Laughlin, Mohamed Almadi, John Moore II, Jamie Hestekin, Wei-Chiang Lin, Morten Jensen: "Characterization of a New Commercially Available Medical Gel for Phantoms" *Biomedical Engineering Society 2019 Meeting, October 16-19, Philadelphia, PA*
- 116) Megan Laughlin, Mason Belue, Hanna Jensen, R. Thomas Collins, Elijah Bolin, Joshua Daily, Morten Jensen: "Analysis of Blood Flow in the Pediatric Left Ventricle Using Vector Flow Imaging" *Biomedical Engineering Society 2019 Meeting, October 16-19, Philadelphia, PA*
- 117) Sam E. Stephens, Marinna R. Tadros, Neil B. Ingels, Jonathan F. Wenk, Morten O. Jensen: "Bonding Mitral Valve Leaflets in The Closed Configuration for High Resolution Micro-CT Imaging" *2019 Annual Meeting of the Heart Valve Society (HVS), Apr 11 - 13, 2019, Sitges, Barcelona, Catalonia, Spain*
- 118) Ali AlAlawi, Kaylee Henry, Md Abul Hayat, Hanna K. Jensen, Melvin S. Dassinger, Jeffrey M. Burford, Patrick C. Bonasso, Kevin W. Sexton, Jingxian Wu, Morten O. Jensen: "Propofol affects peripheral venous tone in anesthetized patients" *16th Annual Midsouth Computational Biology & Bioinformatics Society (MCBIOS) Conference 2019 at Mississippi State University, Starkville, MS.*
- 119) Collins II RT, Laughlin M, Jensen H, Lang S, Bolin E, Daily J, Jensen M: "Vector Flow Imaging for Cardiovascular Applications in Pediatric Patients and Models", *Biomedical Engineering Society 50th Annual Meeting, Thursday, October 18th, 2018, Atlanta, Georgia*

- 120) Preut A, Laughlin M, Jensen H, Hestekin J, Jensen M: "Novel Method for Emboli Analog Formation Towards Improved Stroke Retrieval Devices". *Biomedical Engineering Society 50th Annual Meeting, Thursday, October 18th, 2018, Atlanta, Georgia*
- 121) Al-Alawi A, Hayat A, Bonasso P, Burford JM, Dassinger MS, Jensen HK, Wu J, Sexton KW, and Jensen MO: "Hydration Level Assessment with Peripheral Venous Pressure Waveform Analysis", *Biomedical Engineering Society 50th Annual Meeting, Thursday, October 18th, 2018, Atlanta, Georgia*
- 122) Brazhkina O, Laughlin M, Jensen H, Haney K, Girardot M, Jensen M: "Development of a Model for Accelerated Fatigue Testing of Venous Valves". *Biomedical Engineering Society 50th Annual Meeting, Saturday, October 20th, 2018, Atlanta, Georgia*
- 123) Henson J, Kim J-W, Jensen H, Jensen M: "Size, Concentration, And Time Dependent Effects of PEGylated Gold Nanoparticles on Cardiovascular Cell Viability", *Biomedical Engineering Society 50th Annual Meeting, Thursday, October 18th, 2018, Atlanta, Georgia*
- 124) Bonasso PC, Sexton KW, Hayat MDA, Al-Alawi A, Wu J, Jensen HK, Jensen MO, Smith SD, Burford JM, Dassinger MS: "Venous physiology predicts anesthetic induced hypotension in infants" *American College of Surgeons, Boston, Massachusetts, October 21-25, 2018. doi: 10.1007/s10877-018-0124-5*
- 125) Hayat MD, Wu J, Jensen HK, Jensen MO, Dassinger MS, Burford JM, Bonasso PC, Sexton KW: "Predicting Dehydration in Pediatric Patients with Peripheral Venous Waveforms" *15th Annual Midsouth Computational Biology & Bioinformatics Society (MCBIOS) Conference 2018 at Mississippi State University, Starkville, MS.*
- 126) Wenk JF, Jensen MO: "Finite Element Modeling of Mitral Valve Patch Augmentation and Effects on Chordal Force Distribution", *SB³C2017 Summer Biomechanics, Bioengineering and Biotransport Conference, June 22, 2017, Tucson, Arizona, USA*
- 127) Easson G, White M; Jensen H, Girardot M, Jensen M: "Development of an In Vitro Model for Physiological Testing Native and Prosthetic Venous Valves" *International Vein Congress, April 20-22, 2017. Miami Beach, FL*
- 128) Easson G; Laughlin M; Jensen H; Haney K; Girardot M; Jensen M: "New System for Evaluation of Biomechanical Properties and Performance of Glutaraldehyde Fixed Versus Fresh Venous Valves: Towards a Biomechanically Optimal Replacement Device" *2017 Annual Congress of the American College of Phlebology, Austin, TX, Nov. 2nd-5th, 2017*
- 129) Morten O Jensen, Henrik Jensen, Soren S Nielsen, Robert A Levine, Hans Nygaard, J M Hasenkam, Sten L Nielsen: "New Mitral Valve Annuloplasty Concept: Optimizing Annular Dynamics and Force Distribution" *American Heart Association Scientific Sessions 2016, New Orleans, LA, USA, 12 - 16 NOV., 2016 http://circ.ahajournals.org/content/134/Suppl_1/A15744*
- 130) Skov SN, Ropcke DM, Tjornild MJ, Ilkjaer C, Rasmussen J, Nygaard H, Hasenkam JM, Jensen MO, Nielsen SL: "Novel Intelligent Mitral Annuloplasty Ring that Preserves the Dynamic Saddle Shaped Annulus while Fixating the Septal-lateral Dimension" *American Heart Association Scientific Sessions 2016, New Orleans, LA, USA, 12 - 16 NOV., 2016 http://circ.ahajournals.org/content/134/Suppl_1/A19419*

- 131) Skov, Søren Nielsen; Røpcke, Diana Mathilde; Ilkjær, Christine; Rasmussen, Jonas; Tjørnild, Marcell Juan; Nygaard, Hans; Jensen, Morten Ølgaard Jegstrup; Nielsen, Sten Lyager: "Remodelling Forces of a Rigid Mitral Annuloplasty Ring - A Potential Risk Factor for Ring Dehiscence in Mitral Valve Repair? 2nd Annual Meeting, Heart Valve Society, March 17-19, New York, NY, United States.
- 132) Eric L. Pierce, Charles H. Bloodworth IV, Ajay Naran, Thomas F. Easley, Morten O. Jensen, Ajit P. Yoganathan: "Novel Micro-Computed Tomography Technique for Soft Tissue Deformation Tracking – Application to the Mitral Valve" *SB3C2015 Summer Biomechanics, Bioengineering and Biotransport Conference June 17-20, 2015, Snowbird Resort, Utah, USA.*
- 133) E. L. Pierce, D. D. Spragan, C. H. Bloodworth, T. Kawamura, T. Takayama, M. O. Jensen, A. W. Siefert, R. C. Gorman, J. H. Gorman, A. P. Yoganathan: "Can Optimized Annuloplasty Ring Size and Shape Mitigate Risk of Dehiscence?" *American Association of Thoracic Surgery Mitral Conclave, NY, NY, USA April 23-24 2015.*
- 134) Amir H. Khalighi, Andrew Drach, Fleur M. ter Huurne, Chung-Hao Lee, Charles Bloodworth, Eric L. Pierce, Morten O. Jensen, Ajit P. Yoganathan, Michael S. Sacks: "On the Characterization of Mitral Valve Geometry and Development of a Population-Averaged Model", *SB3C2015 Summer Biomechanics, Bioengineering and Biotransport Conference June 17-20, 2015, Snowbird Resort, Utah, USA.*
- 135) Amir H. Khalighi, Andrew Drach, Fleur M. ter Huurne, Chung-Hao Lee, Charles Bloodworth, Eric Pierce, Morten O. Jensen, Ajit P. Yoganathan, and Michael S. Sacks: "Multi-Scale Geometric Framework for Population-Averaging of the Mitral Valve Apparatus", 2015 BMES Frontiers in Medical Devices Conference: Innovations in Modeling and Simulation, May 18-20, 2015, Washington DC.
- 136) Eric L. Pierce, Deborah M. Paul, Sarah K. Wells, Charles H. Bloodworth, Morten O. Jensen, Andrew W. Siefert, Robert C. Gorman, Joseph H. Gorman, Ajit P. Yoganathan: "Why is Annuloplasty Ring Dehiscence More Common on the Posterior Mitral Valve Annulus?" Inaugural Meeting of New International Heart Valve Society, 6-9 May, 2015, Grimaldi Forum, Monte Carlo, Monaco.
- 137) A. Drach, A.H. Khalighi, C.H. Lee, M.O. Jensen, C.H. Bloodworth, A.P. Yoganathan, M.S. Sacks. "Population-averaged geometric model of mitral valve from patient-specific imaging data" *14th Annual Design of Medical Devices Conference, Minneapolis, MN, Apr 13-16, 2015.*
- 138) Røpcke, Diana Mathilde; Jørgensen, Tine Hejslet; Jensen, Morten Ølgaard Jegstrup; Nielsen, Sten Lyager: "Total tricuspid valve reconstruction using porcine extracellular matrix. An in vitro characterization" *2014 Annual meeting of the Danish Society of Thoracic Surgery, Nyborg, Danmark.*
- 139) S. Nielsen Skov, D. Mathilde Røpcke, A. W. Siefert, C. Ilkjær, M. Juan Tjørnild, A. Yoganathan, H. Nygaard, S. Lyager Nielsen, and M. Jensen: "New Concept for Measuring the Forces in Mitral Valve Annuloplasty Rings" *2014 BMES Annual Meeting October 22-25, 2014, San Antonio, Texas.*
- 140) Jean-Pierre M. Rabbah, Eric Pierce, Qifeng Wei, Karl Thiele, Morten Jensen, Ajit P. Yoganathan: "Validated, Accurate Quantification of Mitral Regurgitation Through 3D Echocardiography Using an Automated Field Optimization Method", *American Society of Echocardiography 25th Annual Scientific Sessions, June 20-24, 2014, Portland, Oregon, USA.*

- 141) Claudio Capelli, Claus Rath, Francesco Ruffini, Dario Biscarini, Francesco Migliavacca, Spyros Tzamtzis, Morten Jensen, Gaetano Burriesci, Martin Andreas, Silvia Schievano, Alfred Kocher: "Evaluation of a Novel Aortic Valve Prosthesis: Integration of Clinical Data With Experimental And Computational Tools" *7th World Congress of Biomechanics, July 6-11, 2014, Boston, Massachusetts, USA.*
- 142) TH Jorgensen, IJ Nielsen, JL Honge, H Nygaard, SL Nielsen, MO Jensen: "Mitral Valve Posterior Leaflet Patch Augmentation Reduces Regurgitant Orifice Area", *62nd Annual Meeting of Scandinavian Association for Thoracic Surgery, Aarhus, Denmark August 22nd - 24th, 2013.*
- 143) Skov, Søren Nielsen; Jensen, Morten Ølgaard Jegstrup; Jensen, Henrik; Askov, Jesper Brink; Nygaard, Hans; Levine, Robert; Yoganathan, Ajit; Hasenkam, J. Michael" New Mitral Valve Annuloplasty Concept Minimize Out-of-plane Force Distribution" *31st National Meeting at the Danish Society for Biomedical Engineering, September 17th - 19th, 2013, Braedstrup, Denmark.*
- 144) C Ilkjaer, JL Honge, MO Jensen, SL Nielsen: "Effect of Annuloplasty Ring Implantation on Tricuspid Valvular Complex Dynamics and Geometry – a Clinical Experiment in Pigs", *62nd Annual Meeting of Scandinavian Association for Thoracic Surgery, Aarhus, Denmark August 22nd - 24th, 2013.*
- 145) ES Kragtsnaes, JL Honge, JB Askov, SL Nielsen, H Nygaard, MO Jensen: "In-plane Tricuspid Valve Force Measurements: Development of Strain Gauge Instrumented Annuloplasty Ring" *Biomedical Engineering Society 2012 Annual Meeting, October 27th 2012, Georgia World Congress Center, Atlanta, Georgia, USA.*
- 146) T Bechsgaard, JL Honge, H Nygaard, MO Jensen: "In Vivo Wireless Transmission of ECG and Force Data" *30th National Meeting at the Danish Society for Biomedical Engineering, September 19th, 2012, Braedstrup, Denmark.*
- 147) A Rahmani, AQ Rasmussen, B Ostli, J Vester-Petersen, JB Askov, JL Honge, RA Levine, A Hagège, SL Nielsen, H Nygaard, MO Jensen: "Mitral valve mechanics following posterior leaflet patch augmentation", *5th Biennial Meeting on Heart Valve Biology and Tissue Engineering, May 18th – 20th, 2012, Myconos Island, Greece.*
- 148) Jesper B. Askov, Jesper L. Honge, Morten O. Jensen, Hans Nygaard, J. Michael Hasenkam, Sten L. Nielsen: "Mitral Valve Replacement with Total Chordal Preservation Increases Force Transmission to the Papillary Muscle-Left Ventricular Wall Complex", *Society For Heart Valve Disease & Heart Valve Society of America, 6th Biennial Meeting, 25-28 June, 2011, Barcelona, Spain.*
- 149) JB Askov, JL Honge, H Nygaard, JM Hasenkam, SL Nielsen, MO Jensen, "Novel Papillary Muscle Force Transducer: Tests and Results", *21st Scientific Meeting of the Scandinavian Society for Research in Cardiothoracic Surgery Geilo, Norway, February 3–5, 2011.*
- 150) Henrik Jensen, Morten O. Jensen, Farhad Waziri, Jesper L. Honge, Erik Sloth, Niels T. Andersen, Per Wierup, J. Michael Hasenkam, Sten L. Nielsen, "Is Tension Alterations of Transapical Artificial Chordae Tendineae Potentially Detrimental for Mitral Repair Durability?" *American College of Cardiology Scientific Sessions, April 3-5, 2011, New Orleans, Louisiana, USA.*

- 151) Morten Jensen, Jesper Langhoff Hønge, Sten Lyager Nielsen, J. Michael Hasenkam, Robert R. Levine, Mathieu Granier, Albert Hagege: "In Vitro Simulation of Mitral Valve Prolapse and Chordal force balance", *Leducq MITRAL Transatlantic Network Meeting, Nantes, France, May 2010*
- 152) J.B. Askov, J.L. Hønge, M.O. Jensen, H. Nygaard, J.M. Hasenkam, S.L. Nielsen, "Novel Papillary Muscle Force Transducer: Initial Tests And Results", *University of Aarhus Graduate School of Medicine Annual PhD Day, January 16th 2009, Aarhus, Denmark.*
- 153) JB Askov, MO Jensen, JL Hønge, SL Nielsen, H Nygaard, JM Hasenkam: "Effect of Mitral Valve Ring Annuloplasty on in vivo Chordal Tension" *19th World Congress of the World Society of Cardio-Thoracic Surgeons November 4th, 2009, Buenos Aires, Argentina.*
- 154) A Stigo, K Sivesgaard, P Johansen, M Jensen, H Nygaard, E Sloth: "Reliability of Speckle Tracking Ultrasound for assessment of myocardial strain", *Third International Conference on Mechanics of Biomaterials and Tissues, 13 – 17 December 2009, Clearwater Beach, Florida, USA.*
- 155) Morten Ølgaard Jensen, Henrik Jensen, Jesper Brink Askov, Robert A. Levine, Ajit P. Yoganathan, Hans Nygaard, Sten Lyager Nielsen, J. Michael Hasenkam: "Flexible Mitral Valve Annuloplasty Rings Provide Superior Annular Dynamics And Force Distribution" *Society for Heart Valve Disease, Fifth Biennial Meeting of The Society for Heart Valve Disease, June 27-30, 2009, Berlin, Germany.*
- 156) S. Vind-Kezunovic, H. Jensen, A. Rutz, R. Vestergaard, S. Ringgaard, M.Ø. Jensen, M. Smerup, S.L. Nielsen, J.M. Hasenkam: Does papillary muscle relocation surgery affect regional wall motion? *19th annual meeting of The Scandinavian Society for Research in Cardio Thoracic Surgery, February 2009, Geilo, Norway.*
- 157) Askov, J.B., Jensen, M.O., Nielsen, S.L., Nygaard, H., Hasenkam, J.M.: New Miniature Transducers for in vivo Chordae Tendineae Force Measurements. *University of Aarhus Graduate School of Medicine Annual PhD Day, January 16th 2009, Aarhus, Denmark.*
- 158) A. Stigo, K. Sivesgaard, M. Ø. Jensen, H. Nygaard, E. Sloth: Reliability of Speckle Tracking and Doppler Tissue Velocity Imaging for Assessment of Myocardial Strain. *19th annual meeting of The Scandinavian Society for Research in Cardio Thoracic Surgery, February 2009, Geilo, Norway.*
- 159) J.B. Askov, M.O. Jensen, S.L. Nielsen, H. Nygaard, J.M. Hasenkam: New Miniature Transducers for In Vivo Chordae Tendineae Force Measurements. *19th annual meeting of The Scandinavian Society for Research in Cardio Thoracic Surgery, February 2009, Geilo, Norway.*
- 160) E Hansen, JB Askov, H Jensen, MØ Jensen, JA Funder, JM Hasenkam, SL Nielsen: The impact of complete and partial mitral ring annuloplasty on mitral and aortic annular dynamics and interactions. *19th annual meeting of The Scandinavian Society for Research in Cardio Thoracic Surgery, Feb. 2009, Geilo, Norway.*
- 161) Henrik Jensen, Morten Ø Jensen, Morten H Smerup, Stefan Vind-Kezunovic, Steffen Ringgaard, Rikke Vestergaard, Per Wierup, J Michael Hasenkam, Sten L Nielsen: Impact of Papillary Muscle Relocation as Adjunct Procedure to Mitral Ring Annuloplasty in Functional Ischemic Mitral Regurgitation. *American Heart Association Scientific Sessions, November 10, 2008, New Orleans, Louisiana, USA.*

- 162) Morten O. Jensen, Peter Johansen, Hans Nygaard: Development of an Implantable Heart Valve Force Transducer. *ASME 2008 Summer Bioengineering Conference (SBC2008), June 25-29, Marriott Resort, Marco Island, Florida, USA.*
- 163) M. Ø. Jensen, H. Jensen, S. Lyager Nielsen, M. Smerup, P. Johansen, A. P. Yoganathan, H. Nygaard, J. M. Hasenkam: Force Balance in the Mitral Valve Annulus: New Results from Novel Modalities and Measurement Techniques. *17th annual meeting of The Scandinavian Society for Research in Cardio Thoracic Surgery, February 2007, Geilo, Norway.*
- 164) H. Jensen, M. Smerup, M. Jensen, M. Bjerre, J. D. Andersen, E. Sloth, W. Yong Kim, S. Ringgaard, J. M. Hasenkam, S. Lyager Nielsen: Papillary muscle relocation in addition to downsized ring annuloplasty improves mitral valve coaptation geometry in chronic functional ischemic mitral valve regurgitation. *17th annual meeting of The Scandinavian Society for Research in Cardio Thoracic Surgery, February 2007, Geilo, Norway.*
- 165) Morten O. Jensen, Henrik Jensen, Morten Smerup, Robert A. Levine, Ajit P. Yoganathan, Hans Nygaard, J. Michael Hasenkam, Sten L. Nielsen: Saddle-shaped Mitral Valve Annuloplasty Rings Improve Leaflet Coaptation Geometry. *American Heart Association Scientific Sessions, Nov. 7th, 2007, Orlando, Florida, USA.*
- 166) MO Jensen, H Jensen, SL Nielsen, M Smerup, P Johansen, AP Yoganathan, H Nygaard, JM Hasenkam: Force Balance in the Mitral Valve Annulus: New Results from Novel Modalities and Measurement Techniques. *17th annual meeting of The Scandinavian Society for Research in Cardio Thoracic Surgery, February 2007, Geilo, Norway.*
- 167) M. Ø. Jensen, S. L. Nielsen, M. Smerup, P. Johansen, H. Jensen, A. P. Yoganathan, J. M. Hasenkam, H. Nygaard: Stress Distribution and 3D Geometry in Mitral Valve Annuloplasty Rings: Ring Selection Implications. *Advances in Innovative Technologies and Tissue Engineering For the Treatment of Heart Valve Disease, 10th Annual Meeting February, 2006, Hilton Head, South Carolina, USA.*
- 168) M. Ø. Jensen, S. L. Nielsen, M. Smerup, P. Johansen, H. Jensen, A. P. Yoganathan, J. M. Hasenkam, H. Nygaard: New Insight into the Mitral Valve Force Balance. *55th Annual Meeting of the Scandinavian Association for Thoracic Surgery and the 26th Annual Meeting of the Scandinavian Society for Extracorporeal Technology, August 2006, Reykjavík, Iceland.*
- 169) M. Ø. Jensen, S. L. Nielsen, M. Smerup, P. Johansen, H. Jensen, A. P. Yoganathan, J. M. Hasenkam, H. Nygaard: 3D Geometry and Stress Distribution in Mitral Valve Annuloplasty Rings. *16th annual meeting of The Scandinavian Society for Research in Cardio Thoracic Surgery, February 2006, Geilo, Norway.*
- 170) MØ Jensen, SL Nielsen, M Smerup, P Johansen, AP Yoganathan, JM Hasenkam, H Nygaard: The Effect of Mitral Annuloplasty Rings on Mitral Valve 3D Geometry and Stress Distribution. *University of Aarhus Graduate School of Medicine Annual PhD Day, January 16th 2006, Aarhus, Denmark.*

Seminars / Invited Guest Lecturer & Speaker

- 1) Invited Distinguished Speaker and Guest Lecturer at Harding University Cardiac Function & Interventional Technology: "Cardiovascular Biomechanics", *Searcy, Arkansas, April 15, 2024.*
- 2) Invited keynote speaker at the 50th Anniversary Conference of the Danish Biomedical Engineering Society: "Comparison of Biomedical Engineering Between United States and Denmark"; *The Stenum Museum, Aarhus, Denmark, November 24th, 2023.*
- 3) Invited Distinguished Speaker and Guest Lecturer at Harding University Cardiac Function & Interventional Technology: "Heart Valve Biomechanics", *Searcy, Arkansas, March 23, 2023.*
- 4) Invited Seminar Speaker at the University of Texas at Arlington (Medical School and Biomedical Engineering Department): "Measurement technologies for heart valve function", *September 17, 2021.*
- 5) Inaugural Project Scope Speaker for the Arkansas Research Alliance: "Research and work with technology to advance development of medical devices; Efforts to assist community with clinical partners fight COVID-19; Support of engineering students in creating economic impact from their design coursework" *ARA Project Scope, Arkansas, September 23rd, 2020*
- 6) Invited Speaker / Discussant in the Mitral Valve session titled Functional Mitral Regurgitation: The Ongoing Controversy. Title of talk "Biomechanical Aspects of Functional Mitral Regurgitation", *the Heart Valve Society Annual Scientific Meeting, Sitges, Spain, April 12th, 2019*
- 7) Collins RT, Laughlin M, Lang S, Bolin E, Daily J, Jensen H, Jensen M: "Vector Flow Imaging for Surgical Decision-Making in Pediatric Cardiology" *Arkansas Exercise and Nutrition Research Symposium: The Science of Diet and Exercise 2nd Annual Center for Human Nutrition Research Symposium. Feb 22, 2019.*
- 8) Invited speaker at the Fayetteville, Arkansas Rotary Club: "Cardiovascular Disease and Research in Arkansas", Fayetteville, Arkansas, February 18th, 2016.
- 9) Invited keynote speaker at the Sixth Nanotechnology for Health Care Conference "Nanoscale Materials and Sensors in Cardiovascular Medicine", Winthrop Rockefeller Institute, Morrilton, Arkansas, December 2nd, 2015.
- 10) Invited guest lecturer at the National Center for Toxicological Research "A Team of Hearts, Jensen Cardiovascular Research; the Past, the Present and the Future", November 19th, 2015.
- 11) Invited guest lecturer at the Georgia Institute of Technology Biomedical Engineering BMED 6784 Cardiovascular Biomechanics, April 2nd, 2015.
- 12) Invited seminar speaker at the University of Texas, Austin ICES Center for Cardiovascular Simulation: "Utilizing Computational and Experimental Tools in Tandem for Development and Evaluation of Cardiovascular Devices" October 27th, 2014.
- 13) Invited Panelist at the NIH "Broadening Experiences in Scientific Training" (BEST) Program. Emory University and the Georgia Institute of Technology. July 23rd, 2014.
- 14) Invited Speaker at the Department of Engineering, Cambridge University: "The Left Heart Tug of War: Engineering and Medicine Joining Forces, January 21st, 2013, Cambridge, UK.

- 15) Invited Speaker at the Department of Bioengineering, Imperial College London: "The Left Heart Tug of War: Engineering and Medicine Joining Forces, December 10th, 2012, London, UK.
- 16) Invited Speaker at Imaging Sciences & Biomedical Engineering, Kings College London / St. Thomas Hospital: "The Left Heart Tug of War: Engineering and Medicine Joining Forces, July 31st, 2012, London, UK.
- 17) Invited Speaker at the Institute of Biomedical Engineering, University of Oxford: "The Left Heart Tug of War: Engineering and Medicine Joining Forces, February 29th, 2012, Oxford, UK.
- 18) Invited Speaker at the Danish Biomechanical Society: "Biomechanical Approaches in Mapping the Left Heart Force Balance", DBS Annual Meeting, October 14th, 2011, Odense, Denmark.
- 19) BioPeople Innovation Tour 2011: "Requirements for Design, Function, Materials, and Communication", Invited Speaker for Cluster of Health and Life Sciences companies (Novo Nordisk, Delta, Coloplast etc.) Nov. 29th, 2011.
- 20) Invited Speaker at the Danish Engineering Foundation: "Coupling between Research and Industry: Why, How?" Health Technology Potential Workshop, Viborg, Denmark, September 27th, 2011.
- 21) 2011 Biomedical Engineering Invited Guest Presentation: "The Left Heart Tug of War: Engineering and Medicine Joining Forces", Auspices at the Center for Innovative Cardiovascular Technologies, Atlanta, Georgia, July 28th, 2011.
- 22) Morten Jensen: "Experimental Heart Surgery in Denmark", Division of Adult Cardiothoracic Surgery and Cardiac Biomechanics, University of California, San Francisco, CA, USA, August 2nd, 2011.
- 23) Morten Jensen: "Experimental Heart Surgery in Denmark", Department of Biomedical Engineering, University of Oulu, Oulu, Finland, August 10th, 2011.
- 24) Morten Ø. Jensen: "Engineering in Experimental Heart Surgery", Danish Institute for Study Abroad (DIS, Copenhagen), September 2009.
- 25) Morten Ø. Jensen: "Repairing the Heart", The Danish Society of Engineers, (Aarhus, Denmark), October 20th, 2009.
- 26) Morten Ø. Jensen: "Repairing the Heart", 19th Danish Biomedical Engineering Society Annual Conference, Denmark September 22nd – 24th, 2009.
- 27) Morten Ø. Jensen: "Repairing the Heart", iNANO: The interdisciplinary nanoscience center at Aarhus University, March 10th, 2009.
- 28) Guest Lecturer: "Engineering in Experimental Heart Surgery", Technical University of Denmark (DTU, Copenhagen), September 2008.
- 29) Guest Lecturer: "Engineering in Experimental Heart Surgery", The Danish Society of Engineers (Copenhagen), September 2008.
- 30) Jensen, M. O: "Mitral Valve Biomechanics and Fluid Dynamics", Department of Cardiology, April 2008, Aarhus University Hospital, Skejby, Aarhus, Denmark.

- 31) Jensen, M. O. J., Bering, J., "Vision Analysis: Techniques and Applications", Virtual Instrumentation Seminar, Engineering College of Aarhus, Denmark, Dec. 6th, 2006.
- 32) Jensen, M. O. J.: "Image Acquisition and Analysis", Virtual Instrumentation Seminar, Engineering College of Aarhus, Denmark, April 1st, 2006.
- 33) Virtual Bioinstrumentation and Industry Discussion Panelist Partnership for Educational Bioengineering Laboratories (PEBEL), Lansdowne, VA, June 4-6, 2004.
- 34) "LabVIEW Control Design and Simulation", National Instruments Symposium, Cape Town, South Africa, November 24th, 2004.
- 35) Jensen, Morten: "Microscope Control with LabVIEW and IMAQ Vision" National Instruments Scientific Imaging Symposium, Boston, MA, November 13, 2003.
https://www.ni.com/pdf/lifesciences/us/life_sci_img_morten.pdf

Selected Public Media Appearances:

- "Simple, Beautiful, but Complex: Biomedical Researcher Morten Jensen's Take on the Human Heart", Cover Story for the 2025 Alumni Magazine of the University of Arkansas College of Engineering
- "Affairs of the Heart", University of Arkansas News, April 26, 2024, <https://news.uark.edu/articles/70298/affairs-of-the-heart>
- "UA and UAMS Awarded \$1.9M to Develop Wearable Blood Loss Detector" Arkansas Business, April 9, 2024, <https://www.arkansasbusiness.com/article/ua-and-uams-awarded-1-9m-to-develop-wearable-blood-loss-detector/>
- "\$1.9 Million Awarded to Create Device That Will Reduce Death From Bleeding", University of Arkansas News, April 04, 2024, <https://news.uark.edu/articles/70033/-1-9-million-awarded-to-create-device-that-will-reduce-death-from-bleeding>
- "UA, UAMS researchers working to create device that detects blood loss, dehydration", Fox News 24 / KNWA on Apr 10, 2024; <https://www.nwahomepage.com/university-of-arkansas-news/ua-uams-researchers-working-to-create-device-that-detects-blood-loss-dehydration/>
- "Researchers Seek to Develop Device to Assess Dehydration in Medical Emergencies", news.uark.edu, April 17th, 2023: <https://news.uark.edu/articles/64019/researchers-seek-to-develop-device-to-assess-dehydration-in-medical-emergencies>
- "Biomedical Engineering Professor Elected as Fellow of the American Heart Association", news.uark.edu, September 15th, 2021
- "Animal Science and Engineering Researchers Partner to Improve Veterinary Procedure", news.uark.edu, February 11th, 2021
- "3D-printed spoon might improve small-animal cystotomies", Veterinary Medicine Update in Animal Health SmartBrief, February 13th, 2021
- "Morten Jensen to Give Inaugural ARA Project Scope Presentation" September 21st, 2020: <https://news.uark.edu/articles/54704/morten-jensen-to-give-inaugural-ara-project-scope-presentation>
- Alliance-recruited researchers doing COVID-19 work in Arkansas, talkbusiness.net, April 30th, 2020
- UA researchers customize 'aerosol boxes' to protect workers at Washington Regional, www.nwahomepage.com (KNWA/Fox24), newsbreak.com, Aerosol boxes created to protect clinicians from COVID-19, April 17th, 2020
- Researchers Customize 'Aerosol Boxes' for Washington Regional, news.uark.edu, researchfrontiers.uark.edu, April 17th, 2020

- UA Engineering Researchers Unite to Save Precious Time in Medical Emergencies <https://electrical-engineering.uark.edu/news/ua-engineering-researchers-unite-to-save-precious-time-in-medical-emergencies.php>, February 2020
- NIH Supports Engineering Researchers to Improve Heart Procedures and Surgeries, news.uark.edu, Jan. 24, 2020
- "Vector Flow Imaging Helps Visualize Blood Flow in Pediatric Hearts", [Week in BioE \(May 31, 2019\)](#), Penn Bioengineering Blog
- "Researchers Test New Imaging Method for First Time on Human Patients" - Article news story on [radiologybusiness.com](#), [www.HealthDataManagement.com](#), [news.uark.edu](#), [www.dotmed.com](#), [www.auntminnie.com](#) etc.
- "American Heart Association Heart Hero" – AHA websites, University of Arkansas Websites, November 1st, 2018,
- "U of A Student Named as 2018 Barry M. Goldwater Scholar", [news.uark.edu](#) April 17th, 2018
- "UA professors aid medical field", *Democrat Gazette front page of Business Section and [www.arkansasonline.com](#)*
- "New Biomedical Company Helps Train Clinicians and Test Medical Equipment", [news.uark.edu](#) April 16th, 2018.
- "UA researchers form new medical testing venture, receive help from Fort Smith company" [talkbusiness.net](#), April 16th, 2018. As of April 19th, 2018: 325 views and 56 shares.
- "Two Biomedical Engineering Faculty Receive Grants from the American Heart Association" [news.uark.edu](#) April 5th, 2018
- "Increasing Numbers of Engineering Students Take Advantage of Semester Study Abroad Opportunities" [news.uark.edu](#) June 7th, 2017
- "Brazilian Students and Biomedical Engineering Professors Collaborate on Summer Research". [news.uark.edu](#) August 3rd, 2016
- "Happy, Healthy Heart Advice", *KNWA-TV and Fox 24 News*, February 10th, 2016
- "American Heart Awareness Month Heart Health Advice", [www.nwahomepage.com](#), February 10th, 2016
- "Healthy Heart Tips for Valentine's Day", [www.publicnow.com](#), February 10th, 2016
- "Healthy Heart Tips for Valentine's Day", [news.uark.edu](#), February 9th, 2016
- "Alliance recruits 2 more scholars" Front page article of the Business Section of Northwest Arkansas Democrat Gazette and [www.arkansasonline.com](#), Arkansas, August 14th, 2015
- "Research Alliance Brings Two Bright Minds To Arkansas" [UALR Public Radio](#), News & Culture for Arkansas, August 13th, 2015
- "ARA Scholars Program Introduces Newest Researchers" *Arkansas Business Online*, August 13th, 2015
- "Research Alliance Brings Two Bright Minds To State" *Talk Business & Politics*, August 13th, 2015
- "Arkansas Research Alliance Scholars Join University of Arkansas Faculty" [news.uark.edu](#), August 13th, 2015
- "ARA Scholars announced" *Article, thecabin.net*, August 13th, 2015
- "ARA Scholars Program Strengthened by New Research Leaders: Scholars drive innovation through research and discovery" *Article, aralliance.org*, August 13th, 2015
- "2 professors joining UA through alliance grant" *Article, thv11.com*, August 13th, 2015
- "Computer heart can save pigs" *Machine Magazine (online)*, Denmark, April 10th, 2013
- "Computer model can speed up heart research" *Natural and Technical Science (online)*, Aarhus University, April 10th, 2013
- "Danske ingeniørstuderende og forskere bag succesfuld teknik til hjerteoperationer", *Interview, ing.dk*, July 5th, 2012
- "Danske ingeniører bag banebrydende hjerteteknologi" *Interview, teknikogviden.dk*, June 8th, 2012

- "Danske ingeniører bag banebrydende hjerteteknologi" *Altinget / Forskning og Innovation, June 6th, 2012*
- "Danske ingeniører bag banebrydende hjerteteknologi" *Interview, iha.dk, June 6th, 2012*
- "New Danish Invention Limits Turbulence in the Aorta" *Article, ing.dk, December 16th, 2011*
- "Engineering College files for patent on heart canula" *Interview, iha.dk, December 15th, 2011*
- "Aarhus-delegation til international konference om sundhedsteknologi" *Interview, iha.dk, June 14th, 2011*
- "Helping Heart Patients" *GENIUS Issue #3, November 2010*
- "International Collaboration and Student Exchange Agreement Established" *iha.dk, 10th September 2010*
- "Researchers use Pigs" *TV2 Østjylland News, 22nd February 2010*
- "Århus-ingeniører hjælper hjertepatienter" ("Aarhus-Engineers help heart patients") *holme-net.dk, nyheder.tdconline.dk, nyhederne.org, news.dk, jp.dk, iha.dk 31st August 2009*
- "Engineers Strengthen Weak Hearts" *Århus Stiftstidende, 6th July 2009*
- "Århus-studerende vinder pris for hjerteteknologi" *Jyllandsposten, 6th July 2009*
- "Big price to Århus-students for landmark heart technology" *presswire.dk, 6th July 2009*
- "Ingeniørstuderende fra Århus hjælper hjerter" *Lokalavisen/Århus, 6th July 2009*
- "Stor pris til Århus-studerende for skelsættende hjerteteknologi" *iha.dk, 6th July 2009*
- "Heart Valve Research" *NEXT no. 6 Conference, Innovation Lab, Aarhus, Denmark, April 2-3 2009*
- "Ny hjertekanyle reducerer blodpropper" *Ingeniøren, Feb 27th, 2009*
- "Ny hjertekanyle giver færre blodpropper" www.hjerteforeningen.dk, *Feb 2nd, 2009*
- "To unge får pris for kanyle" *Århus Stiftstidende, Feb. 1st, 2009, Pg. 16*
- "Danish discovery could help cardiac patients" *Biotech Scandinavia, www.idg.se, Dec. 1st, 2009*
- "Studerende får pris for hjertekanyle" www.tv2oj.dk, *January 27th, 2009*
- "Maskiningeniørstuderende udvikler hjertekanyle" www.jernindustri.dk, *January 27th, 2009*
- "Studerende får pris for kanyle" www.stiften.dk, *January 27th, 2009*
- "Studerende bag banebrydende hjerteteknologi" www.jp.dk, *January 27th, 2009*
- "Ny dansk hjertekanyle skal nedsætte risiko for blodpropper" www.dagensmedicin.dk, *January 27th 2009*
- "Studerende vandt pris for banebrydende hjertekanyle" www.iha.dk, *January 27th 2009*
- "Studerende opfinder banebrydende hjertekanyle" www.iha.dk, *January 22nd 2009*
- "Verdenskendt hjertemediciner besøger Ingeniørhøjskolen" www.iha.dk, *January 16th 2009*
- "Ingeniører og læger udvikler hjertering" *Annual Report, Engineering College of Aarhus, 2008, p 16*
- "Studerende bag banebrydende hjerteteknologi" *Jyllandsposten s. 7, Urban s. 8, January 28th, 2008*
- "The Danish Society of Engineers annual Honorary Award of Excellence, May 2008" *Featured in Århus Stiftstidende (May 7th 2008 p. 22), TV2 Østjylland, Aarhus Universitet (www.au.dk), Dagens Medicin, www.ida.dk, Aarhus University Hospital (www.sundhed.dk), Engineering College of Aarhus (www.iha.dk), Nordjyske Stiftstidende (May 7th 2008 p. 12), Fyns Amts Avis, Fredericia Dagblad, Vejle Amts Folkeblad, Horsens Folkeblad, Stiften.dk, The Danish Heart Foundation (www.hjerteforeningen.dk)*
- "Help to Heart Patients" *Frederiksborg Amts Newspaper, October 17th 2008, 1st section, pg. 5*
- "New Research Helps Heart Patients" *Ritzaus Bureau October 16th, 2008*
- "Breakthrough in Heart Valve Defect Surgery Research" *October 16th, 2008, TV2 News*
- "Heart valve patients can look forward to better treatment" *October 2008, Denmarks Radio News*
- "New research can improve the treatment for patients with leaking mitral heart valves" *October 2008, www.sundhed.dk*

- "New Research Helps Heart Patients" *October 18th 2008, Aarhus Stiftstidende, section 1, page 5*
- "Ny forskning til hjælp for hjertepatienter" *October 20th 2008, Nordjyske Stiftstidende, page 26*
- "Intelligent hjertering med lang levetid" *Hjertenyt, (Danish Heart Association Magazine), Nov. '08 pg. 12-13*
- "Ny Intelligent Hjertering" *P4 Danmarks Radio, Radioavisen, 3:00PM, December 15th, 2008*
- "Aarhus Engineer and Skejby Professor Invents New Heart Ring" www.jp.dk, *December 15th, 2008*
- "Engineers & Medical Doctors Invents Intelligent Heart Ring" www.iha.dk, *December 15th, 2008*
- "Engineers & Medical Doctors Invents Intelligent Heart Ring" www.dr.dk, *December 15th, 2008*
- "Ingeniører og læger udvikler intelligent hjertering" *Radio Interview (in Danish): <http://jp.dk/radio/>, Length: 5min 45sec., December 15th, 2008*
- "Flexible Rings Improves Lives for Heart Patients" *Aarhus Stiftstidende, Friday November 28th, 2008, p. 21*
- "Mitral Valve Force Balance: The Left Ventricular Tug of War" *Publication of PhD defense, Jyllandsposten, Friday November 28th, 2008, p. 20*
- "Den intelligente hjertering på størrelse med en køkkenelastik" *24 Timer, December 16th, 2008, pg. 22*
- "Perspectives in Collaboration between Doctors and Engineers, July 2006" *Featured in TV2 News, Jyllandsposten, Politiken, Hjertenyt, (Danish Heart Association), Urban Newspaper, IHA News, etc.*
- "Eyes for Machines" *Interview in J&M/Industry-Technique, Week 32, 2003, page 30*

Service Roles at the University of Arkansas

- Faculty Senate, representing the College of Engineering
- Toxic Substances Committee, representing the College of Engineering
- Biomedical Engineering Department Head Search Committee
- Department of Biomedical Engineering representative at college-level Scholarship committee
- College of Engineering Promotion and Tenure Committee
- Department of Biomedical Engineering Personnel, Promotion and Tenure Committee
- Chair of Search Committee for new Department of Biomedical Engineering Research Engineer

Academic Courses Taught and Developed at Engineering and Medical Colleges

- Senior Design / Medical Devices (undergraduate level, consistently placing in top 3 at College of Engineering Design EXPO competition)
- Cardiovascular Biomechanics (undergraduate and graduate (MS & PhD) levels)
- Cardiovascular Physiology and Devices (undergraduate and graduate (MS & PhD) levels)
- Blood Pressure and Flow Measurement (PhD & MD/PhD levels)
- Hemodynamics (undergraduate and graduate (MS, PhD & MD/PhD) levels)
- Biofluids (undergraduate and graduate (MS, PhD & MD/PhD) levels)
- Cardiovascular Modelling (undergraduate and graduate (MS, PhD) levels)
- Biomechanics (undergraduate and graduate (MS & PhD) levels)
- Physics (undergraduate level)
- Medical Instrumentation (undergraduate Level)
- Medical Research and Presentation Techniques (undergraduate and graduate (MS & PhD) levels)

Industry Customer Education Courses Taught and Developed

- Advanced Graphical Programming in LabVIEW
- Virtual Instrumentation, Data Acquisition (DAQ)
- Signal Conditioning
- Machine Vision & Image Processing (including course development)
- Motion Control
- System Identification and Simulation (including course development)
- Control Design (including course development)
- LabVIEW TestStand

Professional Society Memberships

- Biomedical Engineering Society (BMES)
- The Danish Heart Foundation
- The Danish Society of Engineers (IDA)
- American Heart Association (AHA)
- Institute of Electrical and Electronics Engineers (IEEE)
- Engineering in Medicine and Biology Society (EMBS)
- U S Association for Computational Mechanics (USACM)
- Danish Society for Biomedical Engineering (DMTS)
- Cardiothoracic Surgery Network (CTSNet)
- Danish Cardiovascular Research Academy (DaCRA)
- The Society for Heart Valve Disease (SHVD)
- The Scandinavian Society for Research in Cardiothoracic Surgery (SSRCTS)
- International Federation for Medical and Biological Engineering (IFMBE) - *affiliated*
- European Alliance for Medical and Biological Engineering & Science (EAMBES) - *affiliated*