

Parametric Human Project Board of Directors

June 2017

Azam Khan, Founder & Chair



Azam Khan is Director, Complex Systems Research at Autodesk, and is the Founder of the Parametric Human Project, an international non-profit with the vision to build an eScience Platform for Human Data Collection and Curation that supports Precision Health.

Azam is also the founder of the Symposium on Simulation for Architecture and Urban Design, and has been the Velux Guest Professor at The Royal Danish Academy of Fine Arts, School of Architecture and Design. Azam received his B.Sc. and M.Sc. in Computer Science at the University of Toronto and his Ph.D. in Computer Science at the University of Copenhagen. He has published over 70 articles in modeling and simulation, visual analytics and ontology visualization, Bayesian inference, human-computer interaction, sensor networks, and architectural design. His research team is currently developing a multi-paradigm, multi-scale multi-physics systems simulation platform to support modeling of complex natural and artificial systems.

Anne Agur, Director



Professor Agur completed her M.Sc. and later a PhD degree in anatomy at the University of Toronto. She teaches Anatomy, Histology, Neuroanatomy and Embryology. Anne is course director of the Physical and Occupational Therapy Gross Anatomy courses and contributes to the anatomy course in the Structure and Function block and the Neuroanatomy course of the Brain and Behavior block of first year medicine. She is the current editor of "Grant's Atlas of Anatomy" and a co-author of "Essential Clinical Anatomy" with Professor Emeritus K.L. Moore. Her research interests include skeletal muscle form and function, clinically applied Neuroanatomy, and Anatomy education.

Sid Fels, Director



Sid Fels: (Prof, ECE, British Columbia, 1998-); PhD (CS, Toronto, 1994); MSc (CS, Toronto 1994); BSc (EE, Waterloo, 1988): Sid is a Distinguished University Scholar at UBC (2004-). He was a visiting researcher at ATR Media Integration & Communications Research Laboratories in Kyoto, Japan (1996-1997). He worked at Virtual Technologies Inc. in CA (1995). He is internationally known for his work in human-computer interaction, biomechanical modeling, neural networks, new interfaces for musical expression and interactive arts with over 300 scholarly publications.

Sid is the academic lead on the biomechanical modeling efforts for the Parametric Human project and leads the international biomechanical modeling effort of the Oral, Pharyngeal and Laryngeal complex for predicting swallowing, mastication and speaking.

Sid is a principal investigator of the \$22.1M Institute of Computing, Information and Cognitive Systems housing interdisciplinary research.

Jeremy Mogk, Director



Jeremy Mogk is a Principal Research Scientist with the Autodesk Complex Systems Research Group, focusing his attention on Computational Anatomy and Biomechanics. His research interests include human musculoskeletal modelling to examine how anatomy impacts limb biomechanics and control, multiscale muscle modelling, and combining empirical datasets to generate and tune person-specific models. Currently, he is working to develop a formal mapping of the connectivity and spatial relations amongst anatomical elements to facilitate an ontology of anatomy and biomechanics that can be used to annotate and organize libraries of anatomical datasets, taking into account geometric and topological variability amongst individuals. Jeremy is also an Adjunct Professor at the University of Toronto, in the Institute of Biomaterials & Biomedical Engineering.

Prior to joining the Autodesk Research team, Jeremy was a Postdoctoral Research Associate at the Rehabilitation Institute of Chicago (with an academic affiliation at Northwestern University), where he implemented experimental techniques and musculoskeletal modelling to study orthopaedic surgeries used to restore voluntary arm and hand function following spinal cord injury. He has a background in Health Science, and holds MSc and PhD degrees in Biomechanics from York University, as well as a Bachelor's degree in Kinesiology (BKin) from McMaster University.

Adriana Ieraci, Director



Adriana is a technology design translator. Her work explores the application of emerging technologies such as Artificial Intelligence and robotics, the design patterns and business models they enable. She is a design and technology entrepreneurship lecturer at the Faculty of Medicine, and the Faculty of Information, University of Toronto. She has led multiple institutions in research strategy and business development. She is the founder of Conveyor Built, an innovation skills training and development firm. Her passion for technological literacy and open innovation inspired her to start the Get Your Bot On! Robotics Community. She has a Masters of Engineering from the University of Toronto.

Steen Schledermann, Director



Steen Schledermann is Executive Director of Parametric Human Project since May 2017.

Steen has a career of more than 15 years in commercial software and product development in the Healthcare Industry in the field of Audiology Medical Devices and Medical Devices Software for clinical applications.

His career ranges from software quality assurance, regulatory and legal compliance, quality management system for medical software and devices, customer care, IT and cloud services operation and information security management. Steen's career is characterized by entrepreneurship developing collaboration platforms for people of a growing organization in terms of business, multi-disciplinary people, international geographically presence, products, markets, regulatory and legislative complexity.

Growth and complexity is mastered through standardization development programs to achieve mature, strong, and scalable processes combined with internationally recognized ISO certifications - ISO 13485 and ISO 27001 and a strong flair for organizational and people change processes - enabling global reach of a continuous successful business.

Steen has a M.Sc, Danish Technical University (DTU) 1996; thesis in multi-angle 3D ultrasound compound imaging of human tissue. Further Steen has a M.IT- IT Strategy and Management, IT University in Copenhagen (ITU) 2014. Steen is also a trained NLP Coach.