

Lukasz Kurgan, Ph.D.

Robert J. Mattauch Endowed Professor and Vice Chair of Computer Science at VCU College of Engineering

Engineering East Hall, Room E4268, Richmond, VA, US

Data scientist specializing in high-throughput structural bioinformatics of proteins & small RNAs.

Biography

Lukasz Kurgan received his M.Sc. degree (with honors) in Automation and Robotics from AGH University of Science and Technology (Poland) in 1999 and a Ph.D. degree in Computer Science from University of Colorado at Boulder in 2003. He joined the University of Alberta in 2003 where he received tenure in 2007 and was promoted to the rank of Professor in 2013. He moved to the Virginia Commonwealth University in 2016 as the Robert J. Mattauch Endowed Professor of Computer Science.

Industry Expertise

Education/Learning, Research, Computer Software, Biotechnology, Pharmaceuticals

Areas of Expertise

Structural Bioinformatics, Intrinsically Disordered Proteins, Protein-ligand(drug) interactions, Computer-aided molecular modeling , Big Data Analysis, Drug Repurposing, Drug Repositioning, Structural Genomics

Affiliations

Professor Department of Computer Science Virginia Commonwealth University, Adjunct Professor Department of Electrical and Computer Engineering University of Alberta

Education

University of Colorado at Boulder
Ph.D. Computer Science

University of Science and Technology (Poland)
M.Sc. Automation and Robotics

Accomplishments

Member of Faculty Opinions

Inducted as member of the "Big Data & Analytics" section of the "Bioinformatics, Biomedical Informatics & Computational Biology" area.

Author of the winning fDPnn algorithm of the international Critical Assessment of Protein Intrinsic Disorder Prediction (CAID) challenge

CAID is a worldwide competition that identifies the most accurate methods that predict the intrinsically disordered protein regions. The results were recently published in Nature Methods (<https://www.nature.com/articles/s41592-021-01117-3>), followed by a commentary article in the same journal that highlights our win (<https://www.nature.com/articles/s41592-021-01123-5>).

Fellow of the Kosciuszko Foundation Collegium of Eminent Scientists

With citation for "outstanding achievements and contributions to the Polish scientific community."

Fellow of the American Institute for Medical and Biomedical Engineering (AIMBE)

With citation for "outstanding contributions to structural bioinformatics, focusing on protein-ligand and protein-nucleic acids interactions and computational characterization of intrinsic disorder. "

Senior Member of ACM

Elevated to be a senior member of Association for Computing Machinery.

Gold Medal of Stanislaw Staszic

Recognition for outstanding academic achievements in the undergraduate and Master's studies.

Outstanding Graduate Student Award

Outstanding Graduate Student Award for the M.Sc. thesis.

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