MARTYNA LUKASZEWICZ
Researcher

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EDUCATION

UNIVERSITY OF IDAHO
May 2024 (Defense date April 9 2024)
PhD in Bioinformatics and Computational Biology,
Focus Area in Mathematical Sciences

UNIVERSITY OF IDAHO
August 2018
MS in Statistical Science

WASHINGTON STATE UNIVERSITY
August 2015
BS in Biology; Minor in Engineering

RELEVANT EXPERIENCE

UNIVERSITY OF IDAHO (Moscow, ID)
Graduate Student, August 2022 – Present
- Published first-author paper in the Journal of Computational Mathematics and Data Science.

SOUTHERN NEVADA HEALTH DISTRICT (Las Vegas, NV)
Informatics Scientist, August 2022 - July 2023
- Designed, developed, and deployed informatics tools to enable clinical care to provide high-quality healthcare services while contributing to broader public health objectives.

UNIVERSITY OF IDAHO (Moscow, ID)
Graduate Research/Teaching Assistant, August 2016 – August 2022
- Conducted independent research, including development of advanced Bayesian models to address research questions, and drew significant interpretation of reproducibility of experiments. Mentored students.

ARCHERDX (Boulder, CO)
Biostatistics Intern, June – August 2020
- Developed, implemented, and automated business and reporting biomarker solutions by working with stakeholders in their design.

GOED OMEGA-3 (Salt Lake City, UT)
Independent Contractor, Part-Time, January 2017 – August 2019
- Identified clinical research designs and analyzed study outcomes to establish evidence-based practices.

IEH LABORATORIES & CONSULTING GROUP (Seattle, WA)
Quality Control Technician, January 2016 – August 2016
- Inspected and tested biotech pathogen detection systems, ensuring compliance with regulatory standards, and made optimization recommendations.

PUBLICATIONS

- **Lukaszewicz M**, Salia OI, Hohenlohe PA, Buzbas EO. Approximate Bayesian computational methods to estimate the strength of divergent selection in population genomics models. Journal of Computational Mathematics and Data Science. 2024 Feb 7:100091.

PENDING SUBMISSION
- **Lukaszewicz M**, Ridenhour BJ, Stalder T, Top EM. Assessing the reproducibility of Hi-C.
- Salia OI, Hether TD, Veillet A, Cavileer T, **Lukaszewicz M**, Buzbas EO, Hohenlohe PA. Experimental evolution of genomic islands of differentiation under divergent selection with and without sexual reproduction and migration.

CONFERENCES

- **Lukaszewicz M**, Salia OI, Hohenlohe PA, Buzbas EO. Approximate Bayesian Computational Statistical Methods to Identify Loci Under Selection from yeast Genomic Data. Poster presented at: Plant and Animal Genome XXVIII Conference; January 14, 2020; San Diego, CA.
- Salia OI, Hether TD, Veillet A, Cavileer T, **Lukaszewicz M**, Buzbas EO, Hohenlohe PA. Experimental Test of Genomic Islands of Differentiation Under Divergent Selection with and without Sexual Reproduction and Migration. Poster presented at: Evolution 2019; June 23, 2019; Providence, RI.

- **Lukaszewicz M**, Salia OI, Hohenlohe PA, Buzbas EO. Approximate Bayesian Computational Methods to Estimate the Strength of Divergent Selection in Yeast. Poster presented at: Symposium on Data Science and Statistics, Beyond Big Data: Building Data Tools; June 1, 2019; Bellevue, WA.

AWARDS

- **John Hopkins University, Applied Modeling for Public Health (AMPH) Workshop, invited proposal co-author**, April 2023

PROFESSIONAL SERVICE

UNIVERSITY OF IDAHO (Moscow, ID)
Tenure Committee Member for Erkan Buzbas, PhD, August 2016 – August 2022

UNIVERSITY OF IDAHO, GRADUATE AND PROFESSIONAL STUDENT ASSOCIATION (Moscow, ID)
Director of Finance and Statistical Science Senator, August 2016 – May 2020

CERTIFICATIONS

HL7 Fundamentals, HL7 International, November 2022

SKILLS

R, Python, SQL, Bash, Tableau, Twilio, LaTeX