# Martin Skarzynski Laptev

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# Mission

My goal is to lead the next generation of scientists and engineers in building solutions that integrate substantive expertise from diverse fields with machine intelligence. Through my work, I strive to promote open source software, such as the <u>Quarto</u> publishing system, which I use to build dashboards, presentations, reports, websites, and other digital deliverables. Overall, I aim to leverage my broad scientific background and technical expertise to help transform the promises of science and technology into a better future for all of humanity.

# **Experience**

## Lead Instructor, General Assembly

2019:

Data Science

- Teaches open-enrollment and enterprise courses such as:
  - <u>React Development</u> <u>Data Analytics</u>
  - Python Programming Web Development

## Lead Instructor, Data Society

2019:

- Provides enterprise clients with training in:
  - Machine Learning DevOps & MLOps Python & R Programming
  - Generative AI Graph Analytics Text Analysis & NLP

## Senior Domain Lead, Amazon Web Services

2022:2024

- Provided customers with scientific and technical expertise in:
  - Computer Vision
    Genomics
    Data Architecture
    Machine Learning
    Real World Evidence
- Built Artificial Intelligence (AI) solutions and Machine Learning Operations (MLOps) systems using:
  - Amazon SageMaker
     AWS Developer Tools
     AWS Lambda
     AWS CloudFormation
     AWS IAM
  - Amazon EMR
    AWS Databases
    AWS Service Catalog
- Obtained 3 AWS certification
  - Practical Data Science
    Cloud Practitioner
    Solutions Architect Associate

# Adjunct Professor, Virginia Tech

2021:2024

- Taught two graduate courses for the Computer Science and Statistics Departments:
  - Machine Learning
    Data Analytics

## Vice President, Data Community DC

2022:

• Leads a non-profit organization that supports eleven Meetup groups

#### AI Engineering Manager, Booz Allen Hamilton

2019:2023

- Led a team of data scientists and software developers working on a cyber intelligence application
- Spearheaded interdisciplinary COVID-19 <u>visualization</u>, <u>genomics</u>, and statistical modeling efforts
- Obtained the Microsoft Azure Data Scientist Associate certification

#### Biomedical Scientist, National Institutes of Health 2009:2022 • Integrated clinical, laboratory, epidemiologic, genomic, and medical imaging data • Combined deep learning and statistical inference using stacked ensembles • Conducted genomic analysis of immune and cancer cells • Developed and tested pharmaceutical and immunotherapeutic agents • Quantified cancer cell signaling pathways • Mentored trainees from various NIH training programs including: • HiSTEP • SIP MRSP Bioinformatics and Data Science Co-Chair, FAES 2014:2021 • Co-administered an academic program with over twenty faculty members • Taught three graduate data science courses: • Python Programming Text Mining Applied Machine Learning • Taught graduate biotechnology workshops on various topics including: Cellular Immunology Flow Cytometry Pharmacometrics Adjunct Professor, George Washington University 2015:2016 • Taught two undergraduate courses for the Women's Leadership Program: Biology of Organisms Women and Leadership Education • MPH, Epidemiology and Biostatistics, Johns Hopkins University 2018 • PhD, Tumor Biology, Georgetown University 2015 • MS, Biotechnology, Jagiellonian University 2009 • BA, Biology, St. Mary's College of Maryland 2007 **Publications** • Potentiating [mAb] therapy by targeting complement C3 [...] on lymphoma cells Submitted • Recalibration of a deep learning model [...] to inform lung cancer screening intervals 2023 • [COVID] genome-based severity predictions correspond to [...] higher viral load 2022 • Linking genotype to phenotype [...] in [COVID] [...] 2022 • Variants in [COVID] associated with mild or severe outcome 2021 • Using prediction models to reduce [...] disparities in [...] lung cancer screening [...] 2021 • Pathogenic role of [BCR] signaling and canonical NF-κB activation in [MCL] 2016 • Interactions between ibrutinib and anti-CD20 antibodies [...] 2016 • Health disparities in the immunoprevention of [HPV] [...] associated malignancies 2015 • Designing the furin-cleavable linker in recombinant immunotoxins [...] 2015 • Harnessing the Fcµ receptor for [...] therapy of [CLL] 2014 **Awards** • Community Contribution of the Year Category Finalist, AWS Builder Awards 2023 • Artificial Intelligence Solutions Architect Award, BAH Emergent Skills Program 2022 • Fellowship Research Award, Cancer Prevention Fellowship Program 2019 • Fellows Award for Research Excellence, National Institutes of Health 2015 • Orloff Science Award, National Heart, Lung, Blood Institute 2014 • Director's Science Award, National Heart, Lung, Blood Institute 2014

# Languages

• <u>ILR 5</u>: English, Polish • <u>ILR 4</u>: Spanish, Russian • <u>ILR 2</u>: French, Portuguese

# **Skills**

