

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 Quarto 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.

Recent Experience

Lead Instructor, [General Assembly](#)

July 2019 - Present

- Teaches [open-enrollment](#) and enterprise courses such as:
 - [Data Analytics](#)
 - [Python Programming](#)
 - [Front-End Web Development](#)
 - [React Development](#)
 - [Tech Excellence Data Science](#)

Lead Instructor, [Data Society](#)

October 2019 - Present

- Provides enterprise clients with training in:
 - Machine Learning
 - R Programming
 - Natural Language Processing
 - Graph Analytics
 - Python Programming
 - DevOps

Vice President, [Data Community DC](#)

April 2022 - Present

- Leads a non-profit organization that supports [eleven Meetup groups](#)

Adjunct Professor, Virginia Tech

September 2021 - December 2023

- Taught two graduate courses for the Computer Science and Statistics Departments:
 - [Machine Learning](#)
 - [Data Analytics](#)

Senior Domain Lead, [Amazon Web Services](#)

April 2022 - February 2023

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

AI Engineering Manager, [Booz Allen Hamilton](#)

October 2019 - March 2022

- Led a team of data scientists and software developers working on a cyber intelligence application
- Spearheaded interdisciplinary COVID-19 [visualization](#), [genomics](#), and statistical modeling efforts
- Obtained the [Microsoft Azure Data Scientist Associate](#) certification

Biomedical Scientist, [National Institutes of Health](#)

June 2009 - April 2021

- 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:
 - [SIP](#)
 - [MRSP](#)
 - [HiSTEP](#)

Bioinformatics and Data Science Co-Chair, [FAES](#)

January 2014 - May 2020

- Co-administered an academic program with over twenty faculty members
- Taught three graduate data science courses:
 - [Introduction to Python](#)
 - [Introduction to Text Mining](#)
 - [Applied Machine Learning](#)
- Taught graduate biotechnology workshops on various topics including:
 - [Pharmacometrics](#)
 - [Cellular Immunology](#)
 - [Flow Cytometry](#)

Adjunct Professor, [George Washington University](#)

January 2015 - May 2015

- Taught two undergraduate courses for the [Women's Leadership Program](#):
 - [Biology of Organisms](#)
 - [Women and Leadership](#)

Education

- **MPH**, Epidemiology and Biostatistics May 2018
- **PhD**, Tumor Biology May 2015
- **MS**, Biotechnology June 2009
- **BA**, Biology May 2007

Select Publications

- [Recalibration of a deep learning model \[...\] to inform lung cancer screening intervals](#) March 2023
- [SARS-CoV-2 genome-based severity predictions correspond to \[...\] higher viral load](#) May 2022
- [Linking genotype to phenotype \[...\] in SARS-CoV-2 \[...\]](#) April 2022
- [Variants in SARS-CoV-2 associated with mild or severe outcome](#) June 2021
- [Using prediction models to reduce \[...\] disparities in \[...\] lung cancer screening \[...\]](#) January 2021
- [Pathogenic role of \[BCR\] signaling and canonical NF-κB activation in \[MCL\]](#) July 2016
- [Interactions between ibrutinib and anti-CD20 antibodies \[...\]](#) January 2016
- [Health disparities in the immunoprevention of \[HPV\] \[...\] associated malignancies](#) December 2015
- [Designing the furin-cleavable linker in recombinant immunotoxins \[...\]](#) May 2015
- [Harnessing the Fcγ receptor for \[...\] therapy of \[CLL\]](#) October 2014

Select Awards

- **Community Contribution of the Year Category Finalist**, AWS Builder Awards February 2023
- **Artificial Intelligence Solutions Architect Award**, BAH Emergent Skills Program January 2022

Natural Languages

- **English**: Native
- **Polish**: Native
- **Spanish**: Professional
- **Russian**: Professional
- **French**: Working
- **Portuguese**: Limited