

# Martin Skarzynski Laptev

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## Experience

### Chief Technology Officer, Ireni Co

2024:

- Builds applications based on the [Dec measurement system](#)
- Offers freelance consulting services to clients

### Lead Instructor, [Data Society](#)

2019:2025

- Provided enterprise clients with training in:
  - Machine Learning
  - Generative AI
  - DevOps & MLOps
  - Graph Analytics
  - Python & R Programming
  - 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](#)
  - [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
  - [Practical Data Science](#)
  - [Cloud Practitioner](#)
  - [Solutions Architect Associate](#)

### Lead Instructor, [General Assembly](#)

2019:2024

- Taught over 20 [open-enrollment](#) and enterprise courses such as:
  - [React Development](#)
  - [Python Programming](#)
  - [Data Analytics](#)
  - [Web Development](#)
  - [Data Science](#)

### 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 [visualization](#), [genomics](#), 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:
  - [SIP](#)
  - [MRSP](#)
  - [HiSTEP](#)

### **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:
  - [Pharmacometrics](#)
  - [Cellular Immunology](#)
  - [Flow Cytometry](#)

### **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](#) *2025*
- [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 Fc \$\mu\$  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**

- [ILR 5](#): English, Polish
- [ILR 4](#): Spanish, Russian
- [ILR 2](#): French, Portuguese

# Skills

