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
  - 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](#)
  - [Data Architecture](#)
  - [Data Visualization](#)
  - [Genomics](#)
  - [Machine Learning](#)
  - [Real World Evidence](#)
- Built Artificial Intelligence (AI) solutions and Machine Learning Operations (MLOps) systems using:
  - [Amazon SageMaker](#)
  - [AWS Developer Tools](#)
  - [AWS Lambda](#)
  - [Amazon EventBridge](#)
  - [AWS CloudFormation](#)
  - [AWS IAM](#)
  - [Amazon EMR](#)
  - [AWS Databases](#)
  - [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](#)
  - [Data Analytics](#)
  - [Data Science](#)
  - [Python Programming](#)
  - [Web Development](#)

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 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

- **ILR 5**: English, Polish   • **ILR 4**: Spanish, Russian   • **ILR 2**: French, Portuguese

Skills

Airflow · Alacritty · Amazon Web Services · Anaconda · API Gateway · Asana · Bash

Blender · Bootstrap · Chartjs · CodePen · CloudWatch · conda-forge · CSS · D3 · Dask

Databricks · DataGrip · Django · Docker · DocumentDB · DVC · DynamoDB · EC2 · ECS

EKS · Elasticache · Elastic Load Balancing · Emacs · Express · Fargate · FastAPI · Flask

GIMP · Git · GitHub · GitHub Actions · GitLab · GitPod · GNU · Homebrew

HTML · HTTPie · HuggingFace · Hyper · IAM · Inkscape · iTerm · JavaScript · Jira

JSON · Julia · Jupyter · Keras · Kubernetes · Lambda · LaTeX · Linux · Lua

macOS · Markdown · Mermaid · MongoDB · MySQL · Neovim · Node · NPM

NumPy · OBS · Observable · Obsidian · OpenCV · Pandas · Plotly · PostgreSQL

PyCharm · Pydantic · PyPI · PyScaffold · Pytest · Python · PyTorch · Quip · R

RDS · React · README · Read The Docs · Redshift · Reveal · Route 53 · RStudio · S3

Sass · SciPy · Secrets Manager · Selenium · Sklearn · Slack · Spacemacs · spaCy

Spark · Sphinx · SQLAlchemy · SQLite · SES · SQS · Streamlit · Swift · TensorFlow

Tidyverse · tmux · Typescript · Vim · VSCode · VSCodium · WebStorm · YAML

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