

Naomi Yudanin, Ph.D.

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OVERVIEW

Strategic executive with over a decade of success in spearheading product management and strategy for AI-driven healthcare solutions. Proven track record in leading cross-functional teams to innovate, commercialize, and deliver products that significantly impact health outcomes. Active contributor to industry-leading advisory committees including AdvaMed, NIH, & FDA, shaping the future of ML-enabled digital health

EXPERIENCE

Munich Re, New York, NY — Director, Medical Data

JANUARY 2023 - PRESENT

- Led the end-to-end development, and successful launch, of a groundbreaking EHR risk assessment product, defining its strategic vision and market position.
- Manage a cross-functional team, driving innovation and meeting strategic objectives through effective collaboration and stakeholder alignment.
- Provide strategic oversight, enhancing product integration and identifying growth opportunities within the broader portfolio.
- Direct product's commercial trajectory, ensuring a robust, user-centric solution that significantly impacts the industry.

Nanowear, New York, NY — Chief Data Scientist

JUNE 2021 - DECEMBER 2022

Set the vision and strategy for data product development, commercialization, and innovation

- Represented Nanowear interests as a member of **AdvaMed** and advisor to the **FDA** and **NIH** on AI/ML applications in digital health
- Oversaw end-to-end data security restructuring and compliance with HIPAA and SOC2 standards
- Led a fully remote software development team comprising in-house engineers and external contractors across mobile and web applications
- Managed infrastructure, budget allocation and hiring roadmap for the engineering and data teams

Fern Health, New York, NY — Director of Data Science

APRIL 2020 - JUNE 2021

Directed the development and implementation of enterprise-grade analytics and predictive modeling infrastructure that leverages multi-dimensional clinical data to enable digital delivery of high-quality, effective care for musculoskeletal pain.

- Managed a cross-functional team responsible for architecture, development and commercialization of the core data platform automating clinical stratification, personalization, and care customization provided by our mobile and web-based applications.
- Defined the corporate data strategy and managed the end-to-end data life cycle across the business, ensuring HIPAA compliance, governance and quality across datasets from disparate sources.

LANGUAGES

English (native)
Russian (fluent)
French (conversant)

SKILLS

Management

Strategic planning, innovation, and product commercialization.

Building and leading Agile teams

Executive stakeholder alignment and business value-driven prioritization

Technical

Production-grade software engineering

Database architecture and pipeline efficiency

Statistical inference and predictive analytics

Machine learning: regression, time-series, supervised, and unsupervised

Data visualization and communication

Clinical data analysis and interpretation

SOFTWARE

Languages

R, SQL, Python, LookML, Javascript, HTML/CSS, Bash, Git

Databases & Platforms

Snowflake, PostgreSQL, MongoDB, Fivetran, DynamoDB, AWS, GCP, Azure

Data Visualization

R-shiny, D3.js, Looker, Tableau, Figma, Illustrator

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Envisagenics, New York, NY — Senior Data Scientist

JANUARY 2019 - APRIL 2020

Led the design, generation, and implementation of machine learning models that incorporate high-dimensional clinical data with whole-transcriptome sequencing to enable in-silico target discovery and prioritization by therapeutic modality for immuno-oncology drug development.

- Co-authored 2 patents comprising the use of artificial intelligence to discover, prioritize and assess immunogenic potential of cancer-specific drug targets from DNA/RNAseq and scRNAseq
- Helped secure over **\$2M** in NIH SBIR Phase I and Phase II grants to fund SpliceO R&D
- Oversaw a team of data scientists and engineers in the development and implementation of novel algorithms as part of our SpliceCore discovery platform, and for clients to use in their drug development pipelines

Weill Cornell, New York, NY — Postdoctoral Fellow

JUNE 2015 - JANUARY 2019

Computationally interrogated the functional and transcriptional dynamics of adipose lymphocytes in human and murine progressive pathogenic obesity using single-cell and bulk RNAseq.

- Authored & co-authored 4 publications in top-tier journals, including **Cell & Science**
- Successfully obtained and annually renewed independent NIH funding for over 3 years, totalling over **\$4M** over 4 years.
- Developed novel experimental and computational approaches to extract statistically rigorous and biologically meaningful information from longitudinal multi-dimensional datasets
- Oversaw the computational infrastructure for the Jill Roberts Institute that supported 80 users

Columbia University, New York, NY — Graduate Research Fellow

AUGUST 2010 - JUNE 2015

Quantitatively modeled and dissected molecular drivers of T cell distribution, maintenance, and retention in humans and mice over life. Received the Richard C. Parker Graduate Student Award for innovative and significant research contributions.

- Authored & co-authored 4 publications in top-tier journals, including **Cell & Nature Reviews Immunology**
- Co-authored numerous successful NIH grant applications, totaling over **\$5.5M** over 5 years
- Oversaw training of 4 junior graduate students and 2 undergraduate students

EDUCATION

Columbia University, New York, NY — Ph.D.

Computational biology, Systems Immunology

Richard C. Parker award recipient for best graduate thesis

Carnegie Mellon University, Pittsburgh, PA — B.Sc.

Biochemistry, Molecular Biology

Graduated with research and academic honors

PATENTS

WO2020210537A1:

Cancer-specific molecules and methods of use thereof

US62/896,230:

Neoantigens, Methods of Detection and Use Thereof

PUBLICATIONS

Full list available here:

[Google Scholar](#)

HONORS

NIH SBIR/STTR Chartered Review Group Member - Applied AI/ML

AdvaMed Executive Leadership Group Member

American Association of Immunologists Member

NIH Ruth L. Kirschstein National Service Award

