Top Skills

Stakeholder Management
Communication
Drug Discovery

Languages

Polish (Native or Bilingual)
English (Full Professional)

Publications

My Google Scholar Profile

Executive Director of Science

Summary

As the Executive Director of Science at Ardigen, I oversee the scientific excellence and robustness of projects that leverage bioinformatics, data science, and artificial intelligence to address drug discovery challenges. With over 10 years of experience in the life sciences industry, I have a strong track record of leading and mentoring cross-functional teams, developing and delivering innovative solutions, and building successful partnerships with academic and industrial stakeholders.

My mission is to create and turn ideas into solutions that can accelerate the discovery and development of new therapeutics. I am currently focusing on target discovery and validation, where I use AI-enabled models to predict and validate novel drug targets. Some of my recent achievements include driving the transformation of Ardigen to be primarily bioinformatics and AI-focused, and conceptualizing and leading the Gene Regulation Platform and the Target Discovery and Validation Platform. I am always eager to learn new technologies and methods, and to collaborate with experts and leaders in the field.

Experience

Gritstone Bio
6 years 8 months

Executive Director of Science
January 2022 - Present (2 years 8 months)
Krakow Metropolitan Area

1. Leadership and Team Development: Leading a team of interdisciplinary scientists and professionals, providing strategic direction and mentorship. Developing, reviewing and implementing strategies to enhance drug discovery, ensuring alignment with goals. Collaborating with stakeholders

and KOL to leverage in-depth knowledge about drug discovery for driving innovative projects and achieving scientific excellence.
2. Strategic Partnerships and Collaboration: Managing relationships with academic and industrial partners and stakeholders to drive scientific project excellence. Representing company in strategic collaborations, serving in roles such as project lead, advisor, and representative in steering committees to ensure robust and actionable outcomes.
3. Project Management and Scientific Oversight: Overseeing the scientific aspects of projects across the drug discovery process, with a focus on Target Discovery and Validation phases. Utilizing advanced Machine Learning (ML) and Artificial Intelligence (AI) solutions to generate relevant results and deliver project milestones on time.
4. Innovation and Technology Integration: Integrating state-of-the-art technologies and methodologies into the scientific workflow. Initiating and contributing to innovative projects and publicly funded research grants, enhancing the company's technological capabilities and scientific portfolio.
5. Marketing and Business Strategy: Designing and executing marketing strategies to promote focus areas. Developing cross-functional business plans to support the company’s growth and ensure alignment with strategic goals, contributing to significant annual revenue generation.

Director of Bioinformatics
January 2018 - December 2021 (4 years)
Kraków Area, Poland

1. Leadership and Team Development: Building and recruiting a diverse team of experts to enhance Ardigen's scientific capabilities. Overseeing team leaders responsible for service development and ensuring that bioinformaticians are well-equipped to tackle a range of scientific challenges. Facilitating career growth through regular coaching and development sessions, ensuring a culture of continuous improvement and knowledge transfer. Member of the Management Team.
2. Strategic Partnerships and Representation: Liaising with industrial and academic partners to implement cutting-edge bioinformatics solutions. Representing Ardigen’s bioinformatics capabilities in various strategic forums, fostering collaboration and innovation as both: delegate and invited speaker roles.
3. Project Oversight and Delivery: Leading bioinformatics projects that support drug discovery and development. Ensuring the delivery of high-quality, actionable results through robust project management and scientific oversight.

4. Innovation and Technology Advancement: Driving the adoption of Machine Learning and Artificial Intelligence within the bioinformatics domain. Designing and executing innovative projects and collaborating with cross-functional teams to integrate advanced data analysis techniques into bioinformatics workflows.
5. Marketing and Revenue Generation: Developing and executing various marketing and business strategies to promote Ardigen's bioinformatics experience. Successfully attracting new business and securing significant revenue through strategic initiatives and effective client engagement.

Oak Ridge National Laboratory
Postdoctoral Research Associate
July 2016 - December 2017 (1 year 6 months)
Oak Ridge, TN, USA

1. Bioinformatics Development: Developed and maintained bioinformatics analyses, applications, and workflows for Illumina and PacBio next-generation sequencing data, enhancing data processing capabilities. Led genome assembly and annotation projects.

2. High Performance Computing: Utilized High Performance Computing (HPC) resources for multi-omics data analysis and interpretation, enabling efficient and robust scientific discoveries.

3. Project Leadership: Provided consultation and leadership on various projects, ensuring successful planning, execution, and completion of research objectives.

The Babraham Institute
Epigenomics Bioinformatician
October 2009 - November 2010 (1 year 2 months)
The Babraham Institute Babraham Hall Babraham Cambridgeshire CB22 3AT

1. Data Management and Analysis: Managed and monitored data from the NGS pipeline, ensuring high-quality data processing. Selected and applied existing tools for comprehensive data analysis, facilitating accurate and efficient research outcomes.

2. Tool Development and Project Consultation: Developed new tools for the visualization and analysis of sequencing data. Provided expert consultation for project planning and design, guiding stakeholders in optimizing project strategies and methodologies.

Maria Sklodowska-Curie Memorial Cancer Center and Institute of Oncology
Research Assistant
April 2006 - June 2007 (1 year 3 months)

Apprenticeship in the Cancer Center and Institute of Oncology, Department of Molecular Biology.

1. Genotyping and Mutation Analysis: Conducted genotyping of germline mutations in BRCA1 and BRCA2, contributing to research on hereditary breast-ovarian cancer syndrome.

2. Statistical Analysis: Performed statistical analysis of mutation frequency, providing insights into the prevalence and impact of genetic mutations on cancer risk.

3. Wet Lab Techniques: Gained hands-on experience with wet lab techniques, including blood drawing, DNA and RNA extraction, and other molecular biology protocols.

The University of Silesia
Research Assistant
October 2005 - May 2007 (1 year 8 months)

Laboratory research with the Association of Biotechnologists at The University of Silesia.

1. Computational Pipeline Development: Developed computational pipeline for automated analysis of mutation types and frequencies, enhancing the efficiency and accuracy of data processing related to tick-borne pathogen studies.

2. Pathogen Data Analysis: Analyzed data from Borrelia burgdorferi-infected tick tissues, contributing to the understanding of Lyme disease prevalence and pathogen characteristics in Silesian territories.

3. Cross-Departmental Collaboration: Supported cross-departmental projects in biotechnology research, fostering interdisciplinary collaboration and advancing research initiatives in pathogen detection and analysis.

Education

King Abdullah University of Science and Technology
PhD, Bioinformatics · (2011 - 2015)

Cranfield University
Master, Applied Bioinformatics · (2008 - 2009)

The University of Huddersfield
Bachelor of Science (Hons), Molecular and Cellular Biology · (2007 - 2008)