

Martin Skarzynski

BIostatistics · DATA Science · EPIDEMIOLOGY · GENOMICS · MACHINE LEARNING · PHARMACOMETRICS · PUBLIC HEALTH · SOFTWARE ENGINEERING

☎ 240-595-3460 | ✉ marskar@gmail.com | 🏠 marskar.github.io | 📷 marskar | 📺 mskar | 🐦 marskar

Summary

My primary research interest is in understanding health risk factors by combining scientific expertise from diverse fields with machine intelligence. I believe I am uniquely equipped to bridge the gaps between scientific disciplines and deliver on the promise of data science in health research. My preferred tools are R and Python, open source programming languages kept on the cutting edge by their active and supportive communities. Through research and teaching, I am constantly improving my ability to obtain, tidy, explore, transform, visualize, model, and communicate data. I aim to utilize my technical skills and science background to become a leader among the next generation of multidisciplinary data scientists.

Recent Experience

Cancer Prevention Fellow

June 2017 - Present

BIostatISTICS BRANCH, DIVISION OF CANCER EPIDEMIOLOGY AND GENETICS (DCEG), NATIONAL CANCER INSTITUTE (NCI)

Rockville, MD

- Integrates clinical, laboratory, epidemiologic, genomic, and medical imaging data
- Researches the effects of genes and exposures on cancer outcomes

Department Co-Chair

January 2015 - Present

BIOINFORMATICS AND DATA SCIENCE DEPARTMENT, FOUNDATION FOR ADVANCED EDUCATION IN THE SCIENCES (FAES)

Bethesda, MD

- Co-administers an academic program with over 20 faculty members
- Currently teaches two graduate data science courses:
 - [Introduction to Python \(BIOF309\)](#)
 - [Applied Machine Learning \(BIOF509\)](#)

Lead Data Science Instructor

July 2019 - September 2019

GENERAL ASSEMBLY

Washington, DC

- Taught Python and data science for the [Booz Allen Hamilton Data Science 5000 \(DS5K\) initiative](#)

Package Author and Reviewer

May 2019 - Present

PYOPENSCI

Remote

- Coordinates review of scientific Python packages submitted to the [pyOpenSci](#) community
- Reviews scientific Python packages
- Developed and maintains three Python packages:
 - [Nbless](#)
 - [Rmdawn](#)
 - [Gitone](#)

Online Course Developer

October 2018 - Present

DATA CAMP

Remote

- Developed and maintains an online course called [Creating Robust Python Workflows](#)

Workshop Instructor

April 2017 - May 2019

THE CARPENTRIES: SOFTWARE, DATA, AND LIBRARY CARPENTRY

Bethesda, MD

- Taught computational skills workshops, such as the [2019 NIH Genomics Data Carpentry Workshop](#)

Data Science Content Developer

June 2018 - December 2018

SMARTLY / PEDAGO

Washington, DC

- Developed Python course content focused on Functional and Object-Oriented Programming

Postdoctoral Fellow

November 2015 - June 2017

ONCOGENOMICS SECTION, GENETICS BRANCH, NATIONAL CANCER INSTITUTE (NCI)

Bethesda, MD

- Conducted genomic analysis of immune and cancer cells
- Mentored a trainee from the NIH High School Scientific and Training Enrichment Program (HiSTEP)

Adjunct Professor

January 2015 - May 2015

GEORGE WASHINGTON UNIVERSITY (GWU)

Washington, DC

- Taught an undergraduate lecture and lab course: *Introductory Biology: The Biology of Organisms* (BISC 1112)
- Organized, led and invited speakers for an undergraduate seminar, *Women and Leadership* (WLP1111)

Predoctoral Fellow

February 2012 - October 2015

HEMATOLOGY BRANCH, NATIONAL HEART LUNG AND BLOOD INSTITUTE (NHLBI)

Bethesda, MD

- Pharmacologically tested kinase inhibitor and monoclonal antibody therapeutic efficacy and drug interactions
- Mentored trainees from three different NIH training programs:
 - Medical Research Scholars Program (MRSP)
 - Biomedical Research Training Program for Individuals from Underrepresented Groups (BRTUG)
 - Summer Internship Program (SIP)

Geospatial Analyst

UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID), US STATE DEPARTMENT

- Mined, analyzed and visualized data on the impact of the 9 USAID Global Development Labs

September 2013 - September 2014

Bethesda, MD

Summer Fellow

BRAIN HEALTH ALLIANCE

- Developed an ontology for neurodegenerative disorders

May 2015 - November 2015

Bethesda, MD

Research Fellow

LABORATORY OF MOLECULAR BIOLOGY, NATIONAL CANCER INSTITUTE (NCI)

- Engineered and assayed therapeutic proteins

July 2010 - January 2012

Bethesda, MD

Summer Fellow

NEUROTOXICOLOGY LABORATORY AND ENVIRONMENTAL HEALTH SCIENCES DEPARTMENT, JOHNS HOPKINS UNIVERSITY

- Assessed putative neurological disease biomarkers

July 2008 - August 2008

Baltimore, MD

Research Scientist

DEPARTMENT OF BIOTECHNOLOGY, JAGIELLONIAN UNIVERSITY

- Quantified gene expression in rodent models of diabetes

October 2007 - June 2009

Krakow, Poland

Graduate Education

MPH, Epidemiologic and Biostatistical Methods for Public Health and Clinical Research

JOHNS HOPKINS UNIVERSITY SCHOOL OF PUBLIC HEALTH (JHSPH)

- Data Science Certificate

May 2018

Baltimore, MD

PhD, Tumor Biology

GEORGETOWN UNIVERSITY-NIH GRADUATE PARTNERSHIPS PROGRAM (GU-NIH GPP)

- Teaching Certificate

May 2015

Washington, DC

MS, Biotechnology

JAGIELLONIAN UNIVERSITY

- Medical Biotechnology Concentration

June 2009

Krakow, Poland

BA, Biology

ST. MARY'S COLLEGE OF MARYLAND

- Spanish Minor

May 2007

St. Mary's City

Awards

Trans-Fellowship Research Award (TFRA)

CANCER PREVENTION FELLOWSHIP PROGRAM (CPFP)

June 12, 2019

Rockville, MD

Summer School on Modeling Immunology Scholarship

EMORY UNIVERSITY

May 21, 2017

Atlanta, Georgia

Cancer Research Training Award (CRTA)

NATIONAL CANCER INSTITUTE (NCI)

November 2015 - Present

Bethesda, MD

Fellows Award for Research Excellence (FARE)

NATIONAL INSTITUTES OF HEALTH (NIH)

June 22, 2015

Bethesda, MD

NHLBI Director's Award

NATIONAL HEART LUNG BLOOD INSTITUTE (NHLBI)

October 29, 2014

Bethesda, MD

Certificate of Appreciation

US STATE DEPARTMENT

July 1, 2014

Washington, DC

Best Poster Award

TARGETED ANTICANCER THERAPIES CONGRESS

March 5, 2014

Washington, DC

Certificate of Appreciation

ROCKVILLE SCIENCE CENTER

January 23, 2014

Rockville, MD

Orloff Science Award

NATIONAL HEART LUNG BLOOD INSTITUTE (NHLBI)

January 17, 2014

Bethesda, MD

Intramural Research Training Award (IRTA)

NATIONAL INSTITUTES OF HEALTH (NIH)

February 2012 - October 2015

Bethesda, MD