

Ted Schomay

Data Scientist

Contact

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Education

University of Utah, Salt Lake City
Biomedical Engineering

Ph.D. May 2019

M.S. Dec. 2014

University of Colorado, Boulder
Physics and Mathematics

B.A. Dec. 2011
summa cum laude

Skills

- Data Science
- Machine Learning
- Python
- SQL
- Natural Language Processing
- Multi-Linear Algebra
- Survival Analysis
- Macintosh/Linux/Windows

I approach engineering and biomedical questions with a rigorous scientific perspective.

- Background in Mathematics, Physics, and Biomedical Engineering
- Faces challenges with creativity
- Enjoys working with others in collaborative environments

Data Science Experience

Data Scientist Dec. 2017 – Present

Advanced Data Analytics Team, Progrexion (Utah)

- Applied machine learning to increase profitability and improve customer service
- Projects included process optimization, predictors of customer quality, survey categorization, and billing date optimization
- Owned and led model implementation from concept to production
- Contributed to creating company-wide Data and Analytics Roadmap
- Broke silos and built data-driven culture by initiating and planning recurring data science lunch-and-learns and an all-day hackathon

Graduate Research Assistant Aug. 2012 – Apr. 2018

Genomic Signal Processing Lab, University of Utah

- Developed multi-linear algebra frameworks to compare high dimensional genomic datasets and find meaningful patterns
- Applied these methods to discover new genomic prognostic indicators for cancer

Biophysics Experience

Biophysics Research Intern Apr. 2012 – Aug. 2012

U.S. Air Force Research Lab, Fort Sam Houston (Texas)

- Simulated heat-induced cell stimulation due to infrared laser exposure

Undergraduate Research Assistant Aug. 2009 – Jan. 2012

BioElectroMagnetics Lab, University of Colorado

- Demonstrated that magnetic field variation in incubators may affect cells
- Designed and built tools to measure low-level magnetic fields
- Developed protocol to measure magnetic fields and analyze results

Undergraduate Research Assistant May 2009 – Aug. 2009

Howard Wachtel and Frank Barnes Labs, University of Colorado

- Built and tested a system to kill pine beetles by precisely heating a tree's sap layer

Activities and Volunteering

Team Volunteering Coordinator 2018 – Present

Advanced Data Analytics Team, Progrexion

- Organized regular team volunteering activities at local homeless and women's shelters

Robotics Technical Coach 2015

FIRST Lego League

- Coached middle school Lego robot team to design, build, and compete