

Robert A. Giaquinto

205 Otis Ave
Saint Paul, MN 55104

Cell (763) 607 4836
giaquinto.ra@gmail.com

EDUCATION

University of Minnesota, M.S. Computer Science

Sep 2014 – May 2016

- Current GPA: 4.00
- Coursework and master's project focus on machine learning and artificial intelligence.

Summer Institute in Statistical Genetics, University of Washington

Jul 2012 – Aug 2012

- Completed Advanced R Programming, Network and Pathway Analyses of Omics Data workshops.

St. Olaf College, B.A. Mathematics & Statistics

Sep 2006 – May 2010

- Cumulative GPA: 3.36, Statistics GPA: 3.85, Junior/Senior GPA: 3.61.
- Recipient of St. Olaf Academic Scholarship, 2008 through 2010.

PROFESSIONAL EXPERIENCE

Research Analyst, Capella Education Company

Feb 2012 – Feb 2015

- Developed an automated system to predict and report on the likelihood of academic success at the time students apply.
 - Predictions used to focus academic coaching efforts, create alerts for faculty, recommend students for targeted orientation courses, and shift marketing strategies.
 - Data preprocessing and storage completed using SAS and SQL languages.
 - Model building, validation, and visualizations created within a reproducible framework using the R and LaTeX languages.
- Built statistical models relating individual factors to a likelihood of defaulting on student loans.
 - Model results tailored to helped the financial aid counseling teams prioritize efforts.
 - Simulated long-term forecasts of the university's overall default rate by combining the model with enrollment projections based on strategic initiatives.
- Presented research results for technical, non-technical and executive audiences.

Planning and Reporting Analyst, Capella Education Company

Aug 2010 – Feb 2012

- Build forecasting models for the Financial Aid Processing and Contact Center.
- Develop and present capacity models, budgets, and resource allocation strategies to management.

TEACHING EXPERIENCE

Instructor/Resident Assistant, Exploration Summer Programs at Yale University Campus

Jan 2010 – Aug 2010

- Taught, advised, and led students in full-time residence and academic setting.
- Developed detailed course curriculums for the following courses:
 - Applied mathematics in a professional setting
 - Logic and problem solving
 - Agricultural policy

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RESEARCH EXPERIENCE

Research Fellow, St. Olaf's Center for Interdisciplinary Research, St. Olaf College, MN

Sep 2009 – May 2010

- Conducted statistical research with Professor Julie Legler, chair of statistics department, and in collaboration with St. Olaf's Advancement Office.
- Conducted time-to-event analysis using Cox Proportional Hazard models to measure non-monetary and monetary giving by alumni.
- Presented research at National Conference for Undergraduate Research (NCUR 2010) and to the St. Olaf Board of Regents.

TECHNICAL SKILLS

- Python and R programming languages. Advanced knowledge in:
 - Deploying custom and off-the-shelf machine learning, statistical modeling, and text mining algorithms.
 - Presenting data as static visualizations and dynamic web applications.
 - Processing unstructured data from free text and web scraping.
 - Interfacing with various relational databases.
 - Integrating low-level programming to optimize performance.
- Managing data in SQLite and PostgreSQL databases.
- Experienced SAS programmer.
 - Completed training courses on proc sql, macro programming, data manipulation techniques.
- Proficient in C/C++ programming languages.
- Comfortable on Windows, Mac OSX, and Unix operating systems.
- Microsoft Excel, Word, and PowerPoint.