

# ROBERT A. GIAQUINTO

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## EDUCATION

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**University of Minnesota - Twin Cities, Minneapolis, MN**

*Sep 2014 – May 2016*

M.S. in Computer Science

Cumulative GPA: 4.00

**University of Washington, Seattle, WA**

*Jul 2012 – Aug 2012*

Summer Institute in Statistical Genetics

Completed Advanced R Programing & Network and Pathway Analyses of Omics Data workshops

**St. Olaf College, Northfield, MN**

*Sep 2006 – May 2010*

B.A. in Mathematics, Statistics

Cumulative GPA: 3.36, Statistics GPA: 3.85, Junior/Senior GPA: 3.61

## RESEARCH EXPERIENCE

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**University of Minnesota - Institute for Health Informatics**

*Feb 2015 – Present*

*Research Assistant*

*Minneapolis, MN*

- Built an automated system for patients to view key sections of medical notes detailing their progress.
- Transformed unstructured text from medical notes using natural language processing techniques into a structured dataset.
- Key sections of text were then identified using machine learning based classification algorithms.

**St. Olaf College - Center for Interdisciplinary Research**

*Sep 2009 – May 2010*

*Research Fellow*

*Northfield, MN*

- Performed 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.

## PROFESSIONAL EXPERIENCE

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**Capella Education Company**

*Feb 2012 – Feb 2015*

*Research Analyst*

*Minneapolis, MN*

- Developed an automated system to predict academic success of students applying to Capella University.
  - Predictions created focus for academic coaching, signal alerts for faculty, recommend students for targeted orientation courses, and shift marketing strategies.
  - Model building, validation, and visualizations reported through a reproducible framework.
- Built statistical models relating individual factors to a likelihood of defaulting on student loans.
  - Tailored results of model to prioritize financial aid counseling teams.
  - Forecasted Capella University's long range default rate using simulations based on internal and external projections.
- Presented research results for technical, non-technical and executive audiences.

**Capella Education Company***Planning & Reporting Analyst*

Aug 2010 - Feb 2012

*Minneapolis, MN*

- Built time-series forecasting models for the financial aid processing and customer service centers.
- Developed and presented capacity models, budgets, and resource allocation strategies to management.

**TEACHING EXPERIENCE**

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**Exploration Summer Programs - Yale Campus***Instructor/Resident Assistant*

Jan 2010 - Aug 2010

*New Haven, CT*

- Taught, advised, and led students in full-time residence and academic setting.
- Developed detailed course curriculums in applied math, logic and problem solving, and agricultural policy.

**TECHNICAL STRENGTHS**

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<b>Programing Languages</b>	Python, R, C/C++, MATLAB, Java, Regex, HTML, CSS, AWK, SAS, L <sup>A</sup> T <sub>E</sub> X
<b>Databases</b>	MySQL, PostgreSQL, Oracle, SQLite
<b>Tools</b>	Git, Terminal, Microsoft Suite
<b>Operating Systems</b>	Windows, Mac OSX, Unix