

Scott T. Young

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SKILLS

- **Python:** Used scientific libraries to calculate statistical information
- **SQL:** Stored and managed clinical datasets with over 1 GB of data
- **Java:** Created web applications to pull API data in real time for web usage
- **JavaScript, PHP, HTML:** Built web scraper for data mining
- **C++:** Utilized Monte Carlo method for simulations of photon transport
- **UNIX, C:** Programmed mechatronic system with feedback and feed-forward control
- **MATLAB:** Created algorithms to analyze images and compute relevant values

EXPERIENCE

Backman Biophotonics Lab – Northwestern University
Graduate Researcher

Sept 2013 – Present
Evanston, IL

- Performed computational image segmentation via machine learning
- Utilized atomic force microscopy to determine stiffness changes in cancer
- Worked with Wololask group to find nanoscale changes with synchrotron x-rays
- Presented poster at Society for Optics and Photonics (SPIE) – Photonics West

Certified Genetool Inc.
Service Engineer

Jan 2012 – Sept 2013
Pleasanton, CA

- Designed guidelines and metrics for future instrument repair and validation
- Led overseas technicians with the installation of equipment
- Conducted training sessions for customers and technicians

Wiemels Lab - University of California, San Francisco
Research Assistant

May 2010 – Sept 2010
San Francisco, CA

- Performed Spearman rank analysis for over 600 patients
- Found evidence for autoantibodies for use in early cancer screening
- Troubleshooted assay procedures and increased productivity by over 300%

VOLUNTEER

Mentorship Opportunities for Research Engagement
Mentor

Sept 2014 – Present
Evanston, IL

- Worked directly with Niles West High School teachers and students
- Provided design guidance and helped mentees to identify and solve problems in the experimental process

EDUCATION

- **Northwestern University**
Candidate for Masters of Science in Bioengineering
2016 (Expected)
- **University of California, San Diego**
Bachelor of Science in Bioengineering
2011

PERSONAL

Brazilian Jiu-Jitsu, Rock Climbing, Piano, Go