

# SARAH PAN

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## EDUCATION

**PRINCETON UNIVERSITY, Princeton, NJ (May 2019)**

B.S.E. COMPUTER SCIENCE, GPA: 3.45

Honors: Mary W. George Research Conference 2016; APIASF/Wells Fargo Foundation Scholarship 2015; NCWIT Aspirations in Computing MD/DE Affiliate Runner-Up 2015

*Relevant Coursework:* Advanced Programming Techniques (COS 333); Computational Reasoning (COS 340); Programming Systems (COS 217); Logic Design (COS 306/ELE 206); Algorithms and Data Structures (COS 226); General Computer Science (COS 126)

## EXPERIENCE

**SOFTWARE ENGINEERING / DATA SCIENCE INTERN, TimescaleDB**

MAY 2017 – AUGUST 2017

- Authored an analysis/tutorial on TimescaleDB functionalities, PostgreSQL queries, and cryptocurrency data
  - #1 on HackerNews, 80k+ views, and 300+ recommends on Medium
- Researched and developed PostgreSQL functions using C for Timescale’s scalable, time-series database extension

**SOFTWARE DEVELOPER / RESEARCH ASSISTANT, Princeton Social Neuroscience Lab**

SEPTEMBER 2016 – MAY 2017

- Wrote and implemented Python scripts to conduct web scraping of social media platforms, track trends in human sharing, and analyze behaviors of online personas
- Oversee fMRI scans for neuroimaging of participants in a behavioral study analyzing the effects of complete social isolation on humans

**MATERIAL MEASUREMENT LAB INTERN, National Institute of Standards and Technology**

JUNE 2014 – AUGUST 2014

- Verified molecular information for 10,000+ chemical structures on the NIST Chemistry WebBook using SciFinder databases and ChemBioDraw structure design applications
- Optimized over 6,500 molecular structures using Gaussian 09 virtual modeling software

## LEADERSHIP & ACTIVITIES

**CO-DIRECTOR OF CAREERS TEAM, Princeton Entrepreneurship Club (fall 2015 – may 2017)**

- Coordinated communication between startup companies and students on campus
- Notable events organized include the bi-annual Startup Meetup, tri-annual Startup Standups, and seasonal Resume Review / Mock Interview Workshops

**DESIGN TEAM OFFICER, Princeton Entrepreneurship Club (fall 2015 – may 2017)**

**ORIENTATION LEADER, Princeton Outdoor Action (OA) Program (fall 2016)**

- Selected and trained to represent Princeton in leading weeklong backcountry trips.
- Introduced incoming freshmen students to wilderness and backpacking principles.

**LAYOUT EDITOR, The Princeton Traveler (fall 2016 – present)**

## SKILLS & ABILITIES

Proficient in Java, C, C++, Python, Javascript, PostgreSQL, Matlab, R

Graphics software: Proficient in Illustrator, Photoshop, InDesign, Autodesk Inventor 3D CAD

Languages: Chinese (fluent), French (proficient)