



Emilia Gan

CS Graduate Student

Experience

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Git

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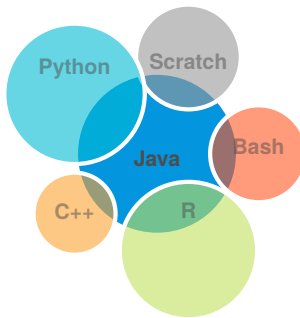
09/16 - now **Graduate Teaching Assistant** [Paul G. Allen School of CS & E, UW-Seattle](#)
Teaching assistant for Artificial Intelligence (CSE 415, Fall 2017/Winter 2018), Data Structures and Algorithms (CSE 373, Fall 2016), Data Programming (CSE 160, Winter 2017), and Serious Games in Python (CSE 190d, Spring 2017). Taught sections for CSE 373 and CSE 190.

06/17 - 09/17 **Analytics Intern** [Code.org, Seattle](#)
Summer internship researching learners' use of the Code.org site. Performed statistical analyses of data on users' progress on Code.org activities and prepared data visualizations using Tableau and R.

06/14 - 06/16 **Instructor - Computer Science & Statistics** [Seattle area colleges](#)
Taught introductory computer science (CS 0, CS 1, CS 2) classes at South Seattle College and introductory statistics classes at Seattle Central College and Bellevue College. Mentored undergraduates interested in majoring in Computer Science or other computing-related fields. Mentored students conducting undergraduate research in data science.

07/98 - 03/00 **Family Practice Resident** [University of Massachusetts Medical School](#)
Cared for my own panel of patients in a Neighborhood Family Health Clinic. Covered overnight call for health center patients, admitting and seeing patients at three local hospitals. Rotated through various specialty areas, seeing patients and taking call for those services.

Programming



Education

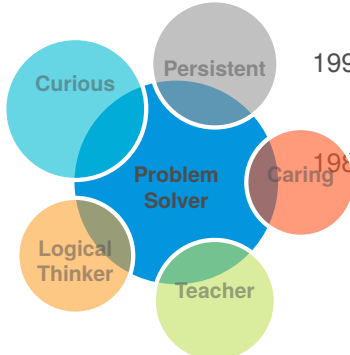
2016 - Now **Computer Science PhD Program** [Paul G. Allen School of CS & E, UW-Seattle](#)
Studying patterns of programmatic skills development and program sharing behavior in users of the Scratch online programming platform. Research interests include data science, machine learning, artificial intelligence, computer science education, and educational technologies.

2011 - 2016 **Master's Degree in Pathobiology** [University of Washington, Seattle](#)
Researched Kaposi's Sarcoma-associated Herpesvirus gene expression using RNA Sequencing. Master's Thesis: *Using the R package Shiny to create web applications that facilitate quantitative gene expression analysis*

1993 - 1998 **MD** [University of Massachusetts Medical School](#)
Focused on primary care and medical ethics.

1986 - 1990 **Bachelor's Degree in Materials Science and Engineering** [MIT](#)
Concentrations in ceramics engineering and metallurgy. Conducted undergraduate research internships at Intel Corporation(Chandler, AZ, summer 1988) and GE Aircraft Engines (Lynn, MA, summer 1989).

Personal Skills



OS Preference

Windows ★★★★★
MacOS ★★★★★
GNU/Linux ★★★★★

Other Places Lived



Languages

English ★★★★★
French ★★★★★
Spanish ★★★★★

Publications & Presentations

Emilia Gan, Benjamin Mako Hill, Sayamindu Dasgupta

Feedback, Gender, and Learners' Decisions to Share Their Creative Computing Projects

In progress

Emilia Gan

Gender Differences in Patterns of Project Sharing on the Scratch Online Programming Community *Presented at The Digital Media and Learning Conference, DML 2017*

A. Gregory Bruce, Serge Barcy, Terri DiMaio, Emilia Gan, H. Jacques Garrigues, Michael Lagunoff and Timothy M. Rose

Quantitative Analysis of the KSHV Transcriptome Following Primary Infection of Blood and Lymphatic Endothelial Cells

Pathogens 2017, 6, 11; doi:10.3390/pathogens6010011

Emilia Gan and Ravi Gandham

Bringing Introductory Computer Science Concepts to Life Using Graphics

Poster, Presented at PyCon 2016

Honors & Awards

- 01/2018 **Graduate Cohort Workshop Student Scholarship** [CRA-W](#)
Computing Research Association - Women:
National mentoring workshop for women working towards graduate degrees in computer science.
- 07/2015 **SISBD Student Scholarship** [University of Washington](#)
Summer Institutes in Statistics for Big Data:
Attended workshops on big data and unsupervised machine learning.
- 08/2014 **Student Fellowship** [Data Science Dojo](#)
Data Science Bootcamp:
Immersive bootcamp giving practical, hands-on introduction to data science.

Professional Training & Certifications

- 03/2016 **Introduction to Machine Learning** [UW Professional Education](#)
Practical introduction to machine learning using R.
- 12/2015 **Introduction to Tableau Visual Analytics** [UW Professional Education](#)
Covered best practices for encoding and visualizing data. Learned to manipulate data and to combine data sources to build charts and dashboards.

Volunteer Activities

- 2014 - Now **Mentor** [University of Washington](#)
Community Data Science Workshops:
Assist at workshops teaching researchers how to use Python for data analysis.
- 2015 - Now **Instructor & Helper** [Software Carpentry](#)
Software Carpentry Workshops:
Trained Software Carpentry Instructor – Lead/assist at sessions to teach researchers and graduate students programming skills.