



# Emilia Gan

## CS Graduate Student

## Experience

### Address

Bellevue, WA

### LinkedIn

linkedin.com/in/emilia-gan

### Website

emilia.tech

### Mail

efgan@cs.washington.edu

### Git

github.com/efran

09/16 - now

### Teaching Assistant & Lecturer

Paul G. Allen School of CS & E, UW-Seattle

Lecturer for Data Programming (CSE 160, Winter 2019) & Teaching assistant for Artificial Intelligence (CSE 473, Fall 2018 & 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.

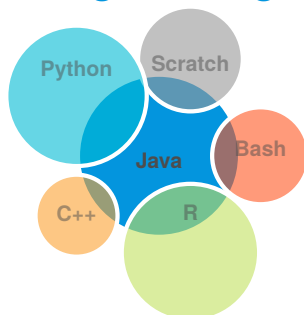
07/98 - 03/00

### 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.

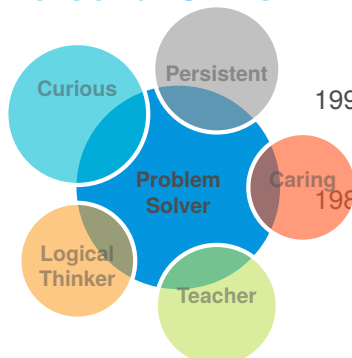
1986 - 1990

### 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**

*Presented at CSCW'18, the 21st ACM Conference on Computer-Supported Cooperative Work and Social Computing*

<https://dl.acm.org/citation.cfm?doid=3290265.3274323>

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### **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

04/2019

### **Scan|Design Summer Fellowship**

[Scan|Design Foundation](#)

Awarded a fellowship to conduct independent study on computer science and technical education in Denmark and to take a summer course, Game.Play.Design, at Aarhus University.

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.*

## 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.*