



# Emilia Gan

## CS Graduate Student

## Experience

### Address

Bellevue, WA

### LinkedIn

linkedin.com/in/emilia-gan

### Website

emilia.cloud

### Mail

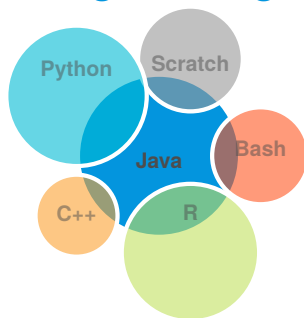
efgan@cs.washington.edu

### 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, Data Structures and Algorithms, Data Programming, and Serious Games in Python. Experienced leading sections, conducting office hours, and guest lecturing.
- August 2019 **Guest Lecturer** [Informatica Feminale, University of Bremen \(Germany\)](#)  
Taught two workshops – one on Data Programming using Python and one on Bioinformatics using Python.
- 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.
- 03/10 - now **Instructor - Computer Science & Statistics** [Seattle area colleges](#)  
Adjunct instructor, currently teaching CS classes at South Seattle College. 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 in Worcester, MA.

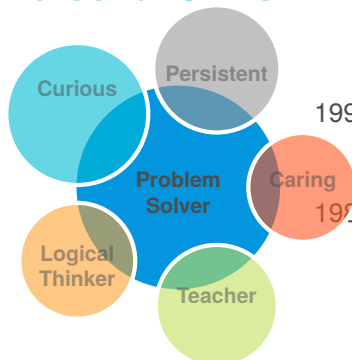
## Programming



## Education

- 2016 - Now **Computer Science PhD Program** [Paul G. Allen School of CS & E, UW-Seattle](#)  
Studying patterns of programmatic skills development and behavior in users of the Scratch online programming platform. Research interests include data science, artificial intelligence, computer science education.
- 2016 - 2019 **Master's Degree in Computer Science** [University of Washington, Seattle](#)  
Researched factors affecting sharing of creative artifacts on the Scratch programming platform.
- 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 **Doctor of Medicine (M.D.)** [University of Massachusetts Medical School](#)  
Focused on primary care and medical ethics.
- 1986 - 1990 **Bachelor's Degree in Materials Science and Engineering** [MIT](#)  
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 ★★★★★  
German ★★★★★

## 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>

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

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.*

04/2020

### **Mentor**

[CodeDay.org](#)

Virtual CodeDay Event:

*Served as a mentor for novice youth programmers.*