Emilia Gan
CS Graduate Student

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Experience

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.

9/21 - 12/21	**DAAD Rise Professional Intern**	ABB Research Center, Ladenburg (Germany)

As a data science intern, worked on creating apps for data analysis and visualization of multivariate time series data using the Streamlit and Dash Python libraries.

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 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

Languages: Java, Scratch, Bash, R, Python
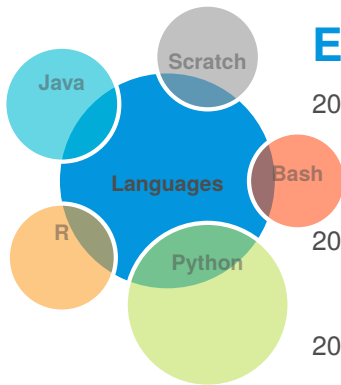
Education

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
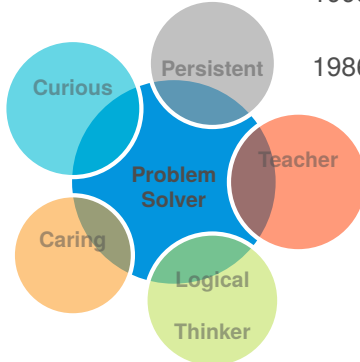
Problem Solver: Curious, Persistent, Caring, Teacher, Logical Thinker

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.