

Education

Case Western Reserve University – Cleveland, OH

B.S., Computer Science, with additional coursework in Biomedical Engineering

August 2012 – January 2017 (expected)

Stuyvesant High School – New York, NY

High school diploma

September 2008 – June 2012

Projects

A Year Of.

(in progress)

Aug 2015 – present

Developer and Designer

- A social good iOS app for philanthropy and a better educated global citizenry

It Takes A Village

lucyktan.github.io/ItTakesAVillage

Jan 2015 – May 2015

Developer and Designer

- A therapeutic game built in Unity3D for parents with postpartum depression

Coursework

Computer Sci.

Matlab, Java, Data Structures, Theoretical Computer Science, Computer Organization Logic Design, Game Design and Implementation

Mathematics

Calculus I & II for Engineers, Logic, Multivariate Calculus, Differential Equations, Statistics for Engineering and Science, Discrete Mathematics

In Progress

Algorithms, Computer Networks, Operating Systems and Concurrent Programming, Database Systems, Software Engineering

Additional

Systems Thinking, Professional Communications, Philosophy, Science and Religion, Bioethics, Memory Illusions, Psychology of Faces, Chemistry of Materials, Organic Chemistry, Polymer Science, Statics and Strength of Materials, Physiology and Biophysics I & II

Relevant Skills

Primary

Java

Proficient

Matlab, LaTeX, Git, C#, C, HTML/CSS, JavaScript, Verilog, Unity3D, Origin, ImageJ

In Progress

Python, Linux/UNIX, SQL

Experience

Alsberg Stem Cell and Engineered Novel Therapeutics Lab

Case Western Reserve University – Cleveland, OH

Sep 2013 – Aug 2014

Research Assistant

- Prepared and conducted experiments towards a project on controlled growth factor release via microspheres in 3D cell culture for vascularized bone tissue engineering
- Attended weekly lab group meetings and presented biweekly project reports

Experimental Pathology Lab in the Dept of Pathology

Case Western Reserve University – Cleveland, OH

Sep 2012 – May 2013

Research Assistant

- Genotyped, bred, and maintained over 50 different mice strains to be used in immunology experiments at the Animal Resource Center and Dirty Quarantine Room

Activities	Biomechanics and Mechanotransduction Laboratory	Mar 2011 – Dec 2011
	Columbia University – New York, NY	<i>Research Assistant</i>
	<ul style="list-style-type: none"> Designed and conducted an independent research project on the effects of mobile phone radiation on human keratinocyte migration <i>in vitro</i> Received the Intel Science Talent Search (formerly known as Westinghouse) 2012 semi-finalist award 	
	Women in Science and Engineering Roundtable (WISER)	Sep 2014 – present
	Organization within CWRU	<i>Mentor and Member</i>
	<ul style="list-style-type: none"> Mentor first-year undergraduate women in science and engineering Provide science experiment demonstrations to young girls in local schools 	
	Case Emergency Medical Services (EMS)	Sep 2012 – May 2014
	Organization within CWRU	<i>Shift Officer</i>
	<ul style="list-style-type: none"> Delivered emergency health services to campus community with EMT-Bs Measured blood pressure, blood glucose, heart/respiratory rate of patients Transported patients to University Hospital or Cleveland Clinic 	
	Perry Outreach Program	Apr 2012 – Apr 2012
Awards	An initiative for women in engineering	<i>Selected Participant</i>
	<ul style="list-style-type: none"> Attended presentations and hands-on workshops (tibia ex-fix, scoliosis correction, fractures) given by orthopedic surgeons at the Hospital for Special Surgery 	
	CWRU Fencing Club	Sep 2012 – May 2013
	Organization within CWRU	<i>Foil Fencer</i>
	High 5 Teen Reviewers and Critics Program	Mar 2012 – June 2012
	An initiative for the arts and humanities	<i>Dance performance critic</i>
	<ul style="list-style-type: none"> Attended weekly writing workshops and performances in the NYC dance scene Wrote and revised literary reviews and critiques on dance performances 	
	Girls Write Now	Sep 2010 – May 2012
	A program and initiative for professional women writers	<i>Mentee</i>
	<ul style="list-style-type: none"> Performed two readings of original written pieces to audience of over 100 people Attended weekly meetings and writing workshops with professional women writers 	
Foreign Languages	CWRU Alumni Association Junior/Senior Scholarship	Sep 2014 – present
	CWRU University Scholarship	Sep 2012 – present
	Intel Science Talent Search Semifinalist	2012
	Random House Creative Writing – Honorable Mention for Poetry	2012
	Scholastics Art & Writing Awards – Gold Key for Writing Portfolio	2012
	Scholastics Art & Writing Awards – Silver Key for Poetry	2012
	Scholastics Art & Writing Awards – Silver Key for Poetry	2011
	Published in CALIPER (Stuyvesant High School literary magazine)	2011
	Published in Girls Write Now Anthology	2011, 2012
Foreign Languages	Mandarin Chinese (fluent)	
	Spanish (proficient)	