

# Yining Shi

yining@nyu.edu | <http://www.1023.io> | <https://github.com/yining1023>

## EDUCATION

### New York University, Tisch School of the Arts

09/2014 – 05/2016

Master's Degree, Interactive Telecommunications Program (ITP)

Thesis: [P5 Playground](#) – a tool to help people learn creative programming faster.

### Beijing University of Posts and Telecommunications (BUPT)

09/2010 – 06/2014

Bachelor of Science in Electronics Engineering Technology

Thesis: [Tangible Interaction to help children learn programming](#).

## PUBLICATIONS

- **Book:** [Jumpstarting the Arduino 101](#), by Yining Shi, Sagar Mohite. Published by [Maker Media, Inc.](#), San Francisco, 2017.
- **Academic Paper:** [TanProStory: A Tangible Programming System for Children's Storytelling](#), CHI EA '15 Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems

## SELECTED PRESS

- [Coding Train, Guest Tutorial #5: Brick Breaker with Yining Shi](#), Sep 21, 2017
- [NYU Tisch, 2 ITP Alumni Publish a Make Book](#), Sep 7, 2017
- [Make Magazine, Humble Bundle Exclusive: Grab Our Brand New Jumpstarting Series](#), Sep 4, 2017
- [NYU Tisch, ITP Alum Talks Diversity in Code and Art](#), Jul 5, 2017
- [p5.js | Diversity with Code + Art Series, Interview with Yining Shi](#), Jun 15, 2017
- [NYC Media Lab, Previewing NYC Media Lab's Annual Summit Demo Session](#), Sep 1, 2015

## PROFESSIONAL EXPERIENCE

### Sourcemap <http://www.sourcemap.com/>

2017– Present

#### Software Engineer

- Write scalable front-end and database code in an agile manner, create data visualizations of supply chain maps and analytics dashboard. Work on Angular4, AngularJS, Mongo, Node, Express.

### Processing Foundation <https://processingfoundation.org/>

08/2016 – Present

#### Resident Contributor

- Frequent contributor to [p5.js Web Editor](#) built on a MERN stack (Mongo, Express, React/Redux, Node) as a part of residency.

### Interactive Telecommunications Program (ITP), NYU <https://tisch.nyu.edu/itp>

08/2016 – Present

#### Research Resident

- Research on creating better Computer Science learning experiences by developing visual learning and programming tools to help people debug faster and understand graphical programming better.
- Full-stack engineering to help develop projects for the ITP community (e.g. [ITP Thesis Archive](#), [ITP Project Finder](#), [ICM Quizzes](#)).
- Lead workshops for ITP students about JavaScript, Data Visualization, Physical Computing and Fabrication.

### Green River <http://www.greenriver.com/>

08/2016 – 12/2016

#### UX Engineer

- Contractual designing and developing web Interfaces for various data visualization projects with D3.js, React, SASS and Babel.

### Institute of Fine Arts, NYU <https://ifa.nyu.edu/>

09/2015 – 08/2016

#### Front End Web Engineer and Designer

- Designed and maintained features for the IFA's website with a static web stack- JS, JQuery, D3.js, PHP, WordPress.
- Developed an engaging data-visualization to interactively browse the [dissertations archive of IFA](#).
- Designed and developed an interactive data visualization project [mapping all IFA alumni](#) from over the world.

### Tomorrow Lab <http://tomorrow-lab.com/>

06/2015 – 09/2015

#### Electronics Design Engineer Intern

- Work on the design and engineering aspects on a number of client-based and in-house projects. Responsibilities included designing circuits using Eagle CAD, sourcing materials, prototype development, fabrication, electrical engineering support.

### HCI Lab, Institute of Software Chinese Academy of Sciences

07/2013 – 01/2014

#### Research Assistant

- TanPro-Kit—an innovative tangible tool to help children learn programming concepts.
- Designed and conducted a user study using caricatures and stories to introduce concepts. Also designed and built a tangible

sensor-based interface to allow kids to understand flow-of-control, logic and other similar concepts.

## TEACHING EXPERIENCES

- 2017 [ITPower & Enertive API: Visualizing Real-time Energy Usage on ITP Floor](#), ITP Camp, NYU, New York
- 2017 [Getting started with React](#), ITP Camp, NYU, New York
- 2016 [Introduction to Computational Media Workshop Series](#), ITP, NYU, New York
- 2015 [Laser Cutter: How-To](#), ITP Camp, NYU, New York
- 2015 [How to Use CNC Router](#), ITP Camp, NYU, New York
- 2015 [Switching it up: circuits, switches & LED's](#), ITP Camp, NYU, New York

## EXHIBITIONS

- 2016 [p5.playground](#), ITP Spring Show, New York
- 2015 [Drawing on LEDs, Drawing on Everything, Museum of the Moving Image](#), New York
- 2015 [Drawing Stars, Event: 1+1=3](#), ITP, New York
- 2015 [The Lives We Lost, This is My House of Green Grass: The Raw Retrieval of the Civil War](#), New York
- 2015 [Minion Circuit](#), ITP Winter Show, New York
- 2015 [Puppy Lamp, NYC Media Lab Summit](#), New York
- 2015 [Puppy Lamp](#), ITP Spring Show, New York
- 2014 [Atmospheric Sound Lamp](#), ITP Winter Show, New York

## SKILLS

- **Programming:** JavaScript (Proficient with ES6 React/Redux, Angular2, D3.js, MERN stack), SCSS, HTML, Java, PHP, MATLAB.
- **Design:** Adobe Creative Suite - Photoshop, Illustrator, After Effects, Premiere.
- **Prototyping:** Eagle CAD, Processing, Arduino, 3D printing, laser cutting, CNC.

## HONORS AND AWARDS

- Tisch School of the Arts Scholarship, NYU
- Academic Prize for Progress, BUPT (99 percentile)
- BUPT Academic Scholarship (two-time recipient for the third position)