

# Joie Chang

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## Education

**Massachusetts Institute of Technology** | Bachelor of Science in Architecture  
Cambridge, MA, Anticipated Graduation Date: June 2017

GPA: 4.7/5.0

Related Course Work:

- 4.021 Introduction to Architecture and Environmental Design (Spring 2014) [Studio]
- 4.401 Environmental Technologies in Buildings (Fall 2014)
- 4.500 Introduction to Geometric Modeling (Fall 2014)
- 4.614 Architecture in the Islamic World (Fall 2014)
- 4.022 Architecture Design Foundations, (Spring 2015) [Studio]
- 4.440J Building Structural Systems 1 (Spring 2015)
- 4.302 Art, Design, & Spatial Practice (Spring 2015)
- 4.023 Architecture Design Studio I (Fall 2015) [Studio]
- 4.502 Advanced Visualization (Fall 2015)

Richard Montgomery High School | International Baccalaureate and High School Diploma  
Rockville, Maryland, June 2013

GPA: 4.0/4.0

## Work Experience

**Plan Cerro Internship: Pre-feasibility Study for the Funiculars: Las Cañas, Los Cipreses, and El Litre**

Valparaíso, Chile (Summer 2015)

- Worked with the architecture and urban planning group, Plan Cerro, with Gonzalo Undurraga on the design of the stations for three funiculars: two to be renovated and one to be built anew. These funiculars, as part of the cultural patrimony of Valparaíso, aimed to improve the mobility, connectivity, and infrastructure between the plan level and the mountain level. Modeled, produced drawings, helped run citizen participation workshops for the funiculars.

**Broadened Drawing-Scape: Prototyping, Software Engineering, and Visual Design**

MIT Design and Computation Group, Cambridge, MA (Fall Semester 2014)

- Worked with Onur Yüce Gün for a paid UROP position on developing an environment to explore the intersection of hand-drawing and algorithmic drawing. Designed, scripted, and tested the program in Processing as well as produced and explored drawings with the system.

**Out of Many, One Installation**

Smithsonian National Portrait Gallery, Department of External Affairs, Washington DC (Summer 2014)

- Worked to coordinate with Nik Apostolides, Associate Director of External Affairs and various NPG partners to realize the facescape commissioned from the artist, Jorge Rodriguez-Gerada. The unique landscape composite portrait was constructed on the National Mall for the month of October.

LightByte: Graphic Design and Communications

MIT Media Lab, Cambridge, MA (Winter-IAP 2014)

- Worked with Aithne Pao for a paid UROP position to design and produce rapidly project posters, websites, visuals, and auditory media for the LightByte and FlickInk projects.

Science Website Development

NASA Goddard Space Flight Center, Greenbelt, MD (Summer 2012)

- Worked with my mentor, Karen Smale, in a National Space Scholar Internship to re-skinned old NASA sites with new CSS & created new website templates for future flight projects

## Design Skills

- Rhinoceros with Grasshopper, DIVA, and ArchSim
- Adobe Photoshop, Illustrator, Premiere, Flash & InDesign
- Java with Processing
- Perl in Linux
- HTML and CSS with server-side includes
- 3D Printing and Laser Cutting
- 3DS Max for Rendering
- Hand Fabrication

## Language Skills

Verbal fluency in English, Chinese, and Spanish

Literacy in English and Spanish

## Activities and Honors

Vice President of Programming, Alpha Epsilon Phi (2014-Present)

Winner of the Kelly Douglas Travel Fellowship (2015)

Historian, Publicist, and Spring Philanthropy Chair, Alpha Epsilon Phi (2013-2014)