

DYLAN PADDOCK

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Education

B.S. in Electrical Engineering and Computer Science

Berkeley, USA

University of California, Berkeley

May 2015

Relevant Coursework: Data Structures, Efficient Algorithms and Intractable Problems, Foundations of Computer Graphics, Introduction to Artificial Intelligence.

GPA 3.718

Experience

Maple English School

Okayama, Japan

Native English Instructor

March 2016 – July 2017

Taught English as a foreign language to Japanese students of all ages, including teens and adults. Planned classes in conversation, reading and writing development, biology, math, and computer science. Developed teaching materials including procedurally-generated bingo cards and lesson-specific worksheets. Organized and managed events. Catalogued resources. Worked within a team of six teachers.

University of California, Berkeley

Berkeley, USA

Course Facilitator

Sept 2012 – Dec 2014

Designed and taught eight courses for UC Berkeley students through the Democratic Education at Cal program, individually or with co-teachers. Conceptualized course themes and topics, created curriculum, selected reading materials, and taught two or more hours of class per week for each course. Subjects taught include Strategy in Tabletop Gaming, Modern Speculative Fiction and Tea.

The Center for Investigative Reporting

Berkeley, USA

Programming Volunteer

July 2013 – Feb 2014

Designed and programmed particle effects for animations to accompany pieces of investigative journalism.

The Vienna University of Technology

Vienna, Austria

Researcher

June – July 2012

Conducted research on road traffic congestion and control. Programmed traffic models for use in model-predictive control systems.

Selected Projects

Nim

Personal Project

Built the game Nim in Unity. Features include click and drag selection, menus, randomized game setup, and a choice of play against a human or computer player of varying difficulty including optimal play. Released on Google Play.

Particle Image Effects

Center for Investigative Reporting and Coco Studios

Designed and implemented a particle effect in Unity to gradually build an image from randomly moving particles. The effect was used in an animation produced by CIR. The full video can be found [here](#).

Automated Panorama Generation

Academic Project: Image Manipulation and Computational Photography

Given a set of photographs taken from the same location, the program identifies control points that match among images, morphs them according to perspective-preserving homographies and stitches them together into a panorama. Built in MATLAB for ease of matrix and image manipulations. Detailed project notes can be found [here](#) and [here](#).

Additional Qualifications and Awards

University of Cambridge and International House Bangkok **Bangkok, Thailand**
Cambridge Certificate in Teaching English to Speakers of Other Languages *Oct 2015*

Eta Kappa Nu Electrical and Computer Engineering Honor Society **Berkeley, USA**
Activities Officer, Committee Member, and Member *May 2013 – May 2014*

Responsible for honor society event logistics and planning, outreach, weekly tutoring, and conducting course surveys.

Tau Beta Pi Engineering Honor Society **Berkeley, USA**
Member *Dec 2012*

Computer Science Skills

- | | |
|------------|---------|
| - Python | - Unity |
| - C/C++/C# | - LaTeX |
| - Java | - Git |
| - MATLAB | |

Language Skills

- | | |
|--------------------|---------------------------|
| - Native English | - Elementary Japanese |
| - Advanced Spanish | - Phonetics and Phonology |

Travel

- Lived in the United States, Moscow, Jakarta, Singapore, Guatemala, Vienna, Bangkok and Okayama, Japan.
- Traveled to over 50 countries on six continents, including Bhutan, Burma, Romania, Tunisia, Palau, and Bolivia.
- Effective at communication across different cultures and linguistic backgrounds.