

Jenna Register

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Education

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|-------------|--|--------------------------|
| 2012 - 2016 | University of Rochester
B.S., Brain & Cognitive Sciences
Minor Computer Science | GPA 3.8 cum laude |
| 2015 | Khon Kaen University
Development & Globalization Study Abroad in Khon Kaen, Thailand
Gilman Scholarship Recipient | |

Experience

2015 - Present **the Computation and Language Lab : Lab Manager/Analyst/Programmer**

- Design, program, analyze, and present behavioral experiments to study human learning and cognition.
- Knowledgeable about human-computer interaction and how to design and prototype user interfaces for optimal user experience.
- Apply machine learning and big data techniques such as Ideal Learner Models using Bayesian Inference, Lambda Calculus to model relational mental representation, regression, maximum likelihood estimation, bootstrapping, model fitting, and optimization in order to study human learning and cognitive processes.
- Model and identify how people infer structure on the world based on experience, using Metropolis Hastings algorithm and graphical models to study human rule learning.
- Manage Linux servers and systems and learned bash and Ubuntu to quickly gain technical knowledge to benefit any team.
- Manage databases, experiments, website, users, wiki, potential employees, meetings and advertisements for the lab in order to keep teams organized and up-to-date with new techniques.
- Designed tutorials and wrote comments, markdowns, and Git ReadMes for code so that anyone can understand and use it.
- Understand, process, and explain unfamiliar code in order to integrate multiple sources and facilitate understanding for others.

2014 - 2016 **Department of Computer Science**

- Completed projects in Artificial Intelligence: Graphical models, logical inference, game building
- Machine Learning theory – took a course in mathematical proofs behind machine learning techniques
- Designed and led a 2-week intensive course to teach Video Game Development and basic Python to highschool students. Found fun ways to introduce difficult concepts and facilitate learning.
- Designed and led computer programming workshops for college students. Very experienced with breaking down difficult concepts to easy, component parts.

Proficiencies

- **Advanced:** Python, R, HTML5, CSS3, LaTeX
Intermediate: Java, JavaScript, bash, Linux
Beginner: scheme, PHP, C
- Spoken Thai, French

Interests

My YouTube channel (teaching cognitive and computer science), Machine Learning, Making Ideas, Animal Intelligence, Cool Technology, Aerial Silks, Rugby, Design, Improving Human Experience, Honeybee Communication