

# Soma Suzuki

London, England

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## Education

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### University College of London, MSc. Spatial Analysis

Sep. 2017 to Aug. 2018

Conducting research on the agent-based human behavior modeling in the urban environment through inverse reinforcement learning. In particular, I am interested in the statistical question of how to generate realistic pedestrian movement through the location data, and more societal question of encouraging participatory urban planning.

### Kyoto University, BSc. Physics

Apr. 2012 to Mar. 2017

Performed research in machine learning modeling of cohesive energy using random walk graph kernel at Isao Tanaka Research Group of Materials Design through Quantum Theory. Achieved 85% for the overall subjects and 90 % for specialized education.

### University of Melbourne, BSc. Physics, Exchange program

Feb. 2015 to Feb. 2016

Through one year of exchange study, I undertook courses on machine learning system design, supervised learning, unsupervised learning, anomaly detection, large-scale machine learning and deep neural networks.

## Experience

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### MIT Media Lab: Machine Learning Engineer

Jun. to Aug. 2017

At MIT Digital Currency Initiative, I worked in a team with four colleagues to address Open Music Initiative where we implemented a platform that could understand music from many different rights holders and compensate them properly. My primary role at the summer lab was to implement audio identification system and Ethereum smart contract function.

### Exawizard: Machine Learning Engineer

Oct. 2016 to Oct. 2017

Implemented machine learning algorithms for establishing multiple services. Deployed personal identification service with multiplex convolutional network. Constantly updated company by investigating cutting edge artificial intelligence algorithms.

### Oxford University: Research Assistant

Mar. 2016 to Apr. 2016

Conducted an extensive research on Global Media under the supervision of Tim Cullen in a team with five colleagues with a particular focus on the influence of western media on Japanese culture.

### Ecole Polytechnique / Kyoto University

Aug. 2017

Undertook intensive 40 hours summer training from Jeremie Jakubowicz on advanced machine learning, comprised of topics from fundamental theories on statistics to on-going project.

**Recruit Holdings: Urban Planner****Feb. 2016**

During 3 weeks government internship, I worked in a team with five colleagues to propose a new solution to the mayor of Shiojiri-town regarding the severe population decline in that particular region of Japan. The main purpose was to provide possible measures to counteract the decrease in population, with a focus on urban design and town planning.

**Cambridge Energy Data Lab: Machine Learning Engineer****Jul. 2015 to Aug. 2015**

I won a data analysis competition, and was offered a position as a machine learning engineer at Cambridge University for six months. During the competition, I wrote a machine learning program in Python to analyze energy consumption data for households. The focus of the position was to create aspects of a smart grid, allowing users to choose a suitable energy company.

**M-hand: Web Developer****Aug. 2014 to Feb. 2015**

Completed a paid 6 months internship for a web developing company as an engineer. Worked in a team to consult with several companies and created their websites. I also acted as a director during team meetings and assisted in the decision-making process.

**Research Paper**

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Comparative Analysis of Human Movement Prediction: Space Syntax and Inverse Reinforcement Learning, Soma Suzuki (2017) *Arxiv Pre-print*

Multiagent-based Participatory Urban Simulation through Inverse Reinforcement Learning, Soma Suzuki (2017) *Arxiv Pre-print*

**Skills**

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**- Programming Skills**

Python, SQL, R, C++, C#, Javascript, Solidity, HTML, CSS

**- Language Skills**

Japanese, English, Spanish