Mashiyat (Mashi) Zaman

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Education

Amherst College | Bachelor of Arts, Magna Cum Laude Amherst, MA | September 2014 – May 2018

- Majors: Physics, Astronomy, Japan Studies
- Cumulative GPA: 3.83/4.00 GRE: 165 Verbal, 164 Quantitative, 5 Writing
  - Awarded the Amherst College **Smith Prize** ($1000.00) for excellence in Japanese Studies.
  - Awarded **distinction** for graduating in the top 25th percentile of the 2018 class.

Ishikawa Japanese Studies Program (IJSP) | Shoyu Club Fellow Kanazawa, JP | June 2016 – August 2016

- Awarded fellowship and ¥200,000 stipend to attend intensive Japanese language program while living with host family.

Work & Volunteer Experience

Recruit Communications Co., Ltd. | Data Engineer Tokyo, JP | July 2018 – Present

- Collaborate with team members on building applications for company use (GitHub, TDD).
- Implement image enhancement techniques introduced in recent academic papers using deep learning (TensorFlow).
- Develop new functionality for colleague's combinatorial optimization solver PyQUBO.

Centre for Environmental and Minority Policy Studies | Researcher Tokyo, JP | April 2019 – Present

- Translate local Hokkaido news reports about indigenous rights for distribution among an international audience.
- Update and maintain the organization's website with recent news and work with indigenous activists.

We Language School | Translator & Textbook Editor Tokyo, JP | June 2018 – September 2018

- Translated profiles of prospective students from Japanese to English for English language teachers.
- Proofread English textbooks and made edits using Adobe InDesign and Illustrator.

Amherst College | Physics Teaching Assistant Amherst, MA | June 2015 – December 2017

- Led weekly help sessions during which students asked questions about homework and course material.
- Corrected homework assignments, reporting students' progress understanding key concepts.

Projects & Papers

Super-Resolution with Contextual Loss July 2018 – September 2018

- Programmed and tested simplified version of the recently proposed (March 2018) loss function "contextual loss" for easy implementation into different super-resolution repositories.
- Applied contextual loss into a generative adversarial network in order to produce photorealistic enhancements of low-resolution input images more efficiently than state of the art models.
- Presented research and results to Recruit Communications Co. IT planners for potential application in company projects.

Breaking Traditional Styles: Building Identities through Genre in *Cowboy Bebop* July 2017 – May 2018

- Investigated director Watanabe Shinichirō's mixing of disparate film genres throughout his 1998 TV series *Cowboy Bebop*.
- Critiqued strictly cultural readings of Japanese media in favor of a genre-based approach independent of nationality.
- Studied critical readings of the noir, science fiction and western film genres from a gender studies perspective to inform analyses of each character's relationship with gender roles.

Data Reduction of Open Cluster NGC 663 in Two Wavelengths September 2017 – December 2017

- Determined the age and distance of a star cluster in a constellation using data collected from a CCD-equipped telescope.
- Implemented the standard procedure for reducing telescope data using Python: applying bias, dark, and flat field frames; combining different-wavelength images; extracting photometric data; and calibrating with standard star images.

Skills & Interests

- Languages: Japanese (Working proficiency); Spanish (Intermediate); Bangla (Elementary)
- Adobe Lightroom, Photoshop, Premiere, Dreamweaver; digital photographer
- Python, JS, R, SQL, TensorFlow, Keras, Docker, AWS, GCS, GitHub