

Lyla S. Taguma

NEUROSCIENCE GRADUATE · ASPIRING DATA SCIENTIST & SOFTWARE ENGINEER

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Curious by nature. Advocate of interdisciplinary collaboration.

Eager to apply my skills & knowledge to address real-world problems in a creative and innovative environment.

Volunteering & Projects

Undergraduate Research *Oestrous Cycle Dependent Modulation of Cortical & Hippocampal Formation Activity*

2023 **The Rochefort Lab, Centre for Discovery Brain Sciences** Edinburgh, UK

- Drove analysis and visualisation of brain activity data obtained using cutting-edge neural recording techniques in mice. Collaborated and presented with professional neuroscientists, informaticians, technicians.

Game Development & Design Artist Role

2022 – 2023 **Independent Groups (*Ludum Dare, itch.io*)** Edinburgh, UK

- Teamed up with UX/UI/sound designers and game programmers, globally. Gained familiarity with FMOD and Unity. Used Procreate & Adobe Illustrator for art. Advised storyline and UX/UI changes to elevate product.

Treasurer (Executive Committee Board Member) & Librarian

2020 – 2023 **Edinburgh University String & Chamber Orchestra** Edinburgh, UK

- Analysed and managed finances (e.g., tour expenses); brought a society out of debt during COVID-19, raising annual revenue by 6-fold over the last 3 years. Organised, distributed, and archived music score libraries.

HP Mars Home Planet Competition, Global Shortlist Qualifiers

2018 **Hewlett Packard** Japan

- Conceptualised, designed, and nationally presented sustainable and energy-efficient transportation solutions for human life envisioned on Mars, in collaboration with Kaisei Academy (KIA) & Toshima-gaoka Academy.

2nd Place National Competition Winner (Violin Performance)

2015 **All Japan Art Association (AJAA)** Japan

- Practiced attention to detail, teamwork, rigour & self-discipline of preparatory practice in a multi-stage competition format. Qualified candidate gala concert performer.

Education

Bachelor of Science in Biomedical Sciences, Neuroscience Honours

2019 – 2023 **The University of Edinburgh, College of Medicine & Veterinary Medicine** Edinburgh, UK

- Certified in animal care and surgery. Explored biomedicine, biology, biochemistry, and anatomy/development.

Middle & High School Diploma, Academic Merit Award, AP Scholar Award

2011 – 2019 **The International School of the Sacred Heart** Tokyo, Japan

- Advanced Placement in English Language & Composition, Calculus AB and Calculus BC, French Language, Chemistry, and Biology.

Employment Experience

Academic & Fine Arts Tutor

2018 – 2022

Self-employed Service

Japan & UK

- Covered wide range of academics & music for youths with personalised action plans or violin/music lessons.

Instructor & Teaching Assistant for Tokyo Metro

2018 – 2022

Tokyo Metro

Tokyo, Japan

- Created interactive guidance and educational films engaging adult English language learners. Gave feedback through hybrid sessions to resolve common translation issues, improving customer satisfaction.

Financial Advisor, Marketing, & Personal Assistant

2019 – 2020

Tokyo Sinfonia, Internship

Tokyo, Japan

- Evaluated and identified financial shortcomings and long-term budgeting solutions. Established sponsorships and strategized marketing via press conferences and social media. Tailed conductor in apprenticeship.

Translator & Editor

2016 Summer

BNN, Inc. Publishing Company

Tokyo, Japan

- Proofread & translated 100 artist profiles for an illustration showcase book.

Other Experiences

- **Design Interface Ideas, Commissioned Favicons, & Other Graphical Elements** for web development
- **Concertmistress, Co-leader, Soloist, & Member of** Edinburgh University String, Chamber, and Symphony Orchestra, KPASSP Honour Orchestra & Choir, Show Choir (Chicago Festival of Gold, Choral Competition), Vocal Ensemble (Maastricht International Choral Competition), Tokyo Junior Philharmonic Orchestra
- **Customer Service & Translator** for International Diners Club Card Ginza Lounge
- **Translator & Description Curator** for Art Exhibitions
- **Film Track Commission** for Bournemouth filmmakers—composed, recorded, and mixed with Reaper

Skill Summary

Languages

English

native proficiency

Japanese

native proficiency

French

conversational, reading & writing proficiency

Hard & Soft Skills

(+2/3 years of experience)

Data manipulation, analysis, and visualisation in Python, R, MATLAB, & Excel, SQL
Statistics, hypothesis testing, & mathematics
Design and 2D Art in Adobe Illustrator & Procreate
Scientific figure-making in Inkscape
Web-development with HTML & CSS
Terminal & GitHub workflow

Current Endeavours

- Data structures and algorithmic paradigms for modelling computational problems
- Exploring logic and mathematical concepts with Haskell
- Further self-taught data science skills with Python & SQL
- Planning open-source simulation projects in Python
- Optimising terminal-first workflow & blog-building with Pelican & GitHub

References available upon request.