

# Zhuohan(Audrey) Jiang

NEUROSCIENCE · EAST ASIAN LANGUAGE AND LITERATURE

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## Education

### Smith College

Northampton, MA, USA

**MAJOR:** NEUROSCIENCE, **MINOR:** EAST ASIAN LANGUAGE AND LITERATURE, **GPA:** 3.91, **CUM LAUDE**

*BA degree May 2020*

**Related Courses:** Statistical Machine Learning, Using Data Structure, Linear Algebra, Multiple Regression, Intro to Computer Science Using Java, Brain and Cognition, Experimental Methods in Neuroscience, Visual Anthropology

## Grants & Awards

2017-2020 **Dean's List**,

2019 **Praxis Grant**,

2019-2020 **Kahn Institute Student Fellowship**,

since 2019 **Nu Rho Psi membership**,

since 2020 **Mu Sigma Rho membership**,

since 2020 **Zeta Chapter, Phi Beta Kappa**,

**Smith College**

**Smith College**

**Smith College**

**Pioneer Valley**

**Boston Chapter**

**Smith College**

## Skills

### Programming

Java, R, Python, MATLAB, LaTeX

### Software

Logger Pro, EthoVision, iMovie, Adobe Photoshop, Premiere Pro, After Effect, Microsoft Word, Excel, PowerPoint, Amazon MTurk

### Laboratory

dissection (mice brain, rat), ECG, light and fluorescent microscope, eye-tracking machine, dry EEG

## Experience

### Kahn Institute

Smith College, MA, USA

STUDENT RESEARCHER

*Sep. 2019 - present*

- Selected as one of the five student researchers who participate in the weekly meeting with other 15 faculty members about the issue of translations in a literal context and beyond.
- Investigating the question of what is changed when the devices and materials in photography develop as a result of technology advancement by conducting ethnographic research and examining the physical changes of the devices.

### Computational Memory and Perception Lab (Prof. Rosemary Cowell)

UMASS, Amherst, MA, USA

RESEARCH ASSISTANT

*Jan. 2019 - Present*

- Ran participants in computer-based experiments in the project of investigating mechanisms of recognition memory in the medial temporal lobe and other projects.
- Worked on refining the pipeline of the fMRI data analysis by coordinating different Python packages using Nipype paradigm to improve data analysis efficiency in neuroimaging data.
- Made animate and inanimate stimuli for *Object Recall in Normal Aging* project using Python and Photoshop.
- Designed and coded the layout of web-based online experiment on Amazon Mechanical Turk to collect normal data, ran multidimensional scaling analysis for the classification of stimuli in future experiment.

### Yotsumoto Lab (Prof. Yuko Yotsumoto)

the University of Tokyo, Japan

RESEARCH ASSISTANT

*July 2019 - August 2019*

- ran participants in a project of investigating the effect of different tactile oscillation on people's perception of time using g.Nautilus dry EEG system in MATLAB simulink.
- analyzed the EEG data using Python, compared different computational methods of power spectrum analysis.

### Visual Cognition and Attention Lab (Prof. Kyle Cave)

UMASS, Amherst, MA, USA

RESEARCH ASSISTANT

*Aug. 2018 - Jan. 2019*

- Reviewed primary literature on differences between horizontal and vertical visual stimuli in attention allocation.
- Tested 30+ participants using eye-tracking machine for the Multiple Target Search IV project, which investigated the overt attention allocation and theories of the fixation patterns.

### Hall Lab (Prof. Adam Hall)

Smith College, MA, USA

RESEARCH ASSISTANT

*Jan. 2018 - May 2018*

- Designed the novel experiment "The Effect of Ashwagandha on Zebrafish Anxiety Level" by looking at Zebrafish behavior levels using videos and EthoVision.
- Analyzed 40 groups of data on zebrafish anxiety levels using Excel and R.

## Summer Science and Engineering Program

Smith College, MA, USA

TEACHING INTERN

June 2018 – Aug. 2018

- Worked with 50+ students as teaching assistant for Making Connections, an intro-level neuroscience class.
- Prepared materials for zebrafish fluorescent microscope slices (transgenic and antibody), mice brain extraction, tadpole brain dissection, and sheep brain anatomy.
- Coordinated and helped 12 groups of students about their final projects on zebrafish.

## Smith College Biology Department

Smith College, MA, USA

BIOLOGY MASTER TUTOR

Sep. 2018 – Dec. 2018

- Selected as the tutor for Animal Physiology and Genome and Genetic Analysis.
- Held TA hours and review sessions to help students with their questions and homework.

## Presentation

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### Celebrate Collaboration 2018

Smith College, MA, USA

PRESENTER FOR “THE EFFECT OF ASHWAGANDHA ON ZEBRAFISH ANXIETY LEVEL”

April. 2018

- Explained the effect of Ashwagandha on Zebrafish at organism level

### Vision Science Society 2020

St. Pete’s Beach, Florida

PRESENTER FOR “VISUAL AND SEMANTIC SIMILARITY NORMS FOR A NEW OBJECT AND SCENE PHOTOGRAPHIC IMAGE SET”

May. 2020

- Will introduce the database of object and scene color photographs with both visual and semantic similarity ratings among images within well-defined sub-categories of the objects and scenes.

## Extracurricular Activity

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### Telluride Film Festival Student Symposium

Telluride, CO, USA

STUDENT SYMPOSIUM SELECTED STUDENT

Sep. 2019

- Selected and funded as one of the 50 student participants for the student symposium of one of the most prestigious film festival in North America.
- Involved in dedicated discussions about films with directors, scriptwriters, and actors/ actresses.

### Vision Science Summer School Program

York University, Canada

SUMMER PROGRAM SELECTED STUDENT

June 2019

- Selected and funded as one of the 50 students of the one-week vision science program in Toronto.
- Experienced different kinds of research in vision science from Psychology to Electrical Engineering.

### Information Technology Services

Smith College, MA, USA

CS STUDENT CONSULTANT

Jan. 2018 – June 2019

- Helped with the event support, maintenance of the equipment and reunion events for students and professors.
- Helped School for Social Work students with video shooting.

### Museum Volunteer Program

Smith College, MA, USA

VOLUNTEER

Jan. 2018 – May 2020

- Held activities in the Night at Your Museum, the annual biggest event in Smith College Art Museum.
- Helped with Community Day and Second Friday and projects connecting artworks with community members.

### Sazanami, Japanese Culture Appreciation Club

Smith College, MA, USA

CO-CHAIR

Sep. 2018 – May 2020

- Organized the annual Fall Festival and Cherry blossom Festival for 100+ participants and coordinated performers across five-college area.
- Organized food and Japanese traditional art appreciation workshops.
- Connected with professors from different departments for discussion panels on interdisciplinary topics such as Olympic Games.
- Held Japanese film screening about ramen, invited a professor giving short introduction about the history of ramen, and attained sponsorship by a downtown ramen restaurant with coupons; organized five-college film screening of the documentary film about comfort women and invited the director to give talks

### Aug Studio

Smith College, MA, USA

CO-FOUNDER

Sep. 2018 – May 2019

- Initiated a student community which gathered together every week to appreciate different kinds of world cinemas as well as a follow-up discussion about the movies.

### Residence Life

Smith College, MA, USA

STUDENT ACADEMIC ADVISOR

Sep. 2018 – May 2019

- Helped and instructed the first-year students with their scheduling and choices of classes, as well as directed the info session about the course registration process and the honor code at the beginning of academic year.