

# Yuelin Zhong

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## EDUCATION

### University of Virginia

Charlottesville, VA | Fall 2017 - Summer 2020

BACHELOR OF ARTS WITH DISTINCTION

Majors: Biology & Statistics

Minor: Psychology

GPA: 3.78

Honor: Dean's List (all semesters)

## SKILLS

**Laboratory Techniques:** mice dissection, immunostaining, flow cytometry, cell sorting, PCR, IP injection, mice anesthesia, microscopy, RO bleeding, gavaging, cell culture, suppression assay, western-blotting, ELISA, RTqPCR, human sample processing(blood and fecal), aseptic techniques, bacteria culture, transformation, SDS-PAGE gel, protein purification

**Programming Languages:** Python, R

**Technology:** RStudio, FlowJo, Galaxy, IPA, IGV, Prism, SAS, Tableau, Git, Microsoft Office Suite,  $\LaTeX$

**Languages:** Native in Chinese, Fluent in English

**Relevant Courses:** Immunology, Cell Biology, Molecular Biology, Microbiology, Genetics, Animal Behavior Lab, Regression Analysis, Statistical Machine Learning, Data Analysis with Python & R

## EXPERIENCE & RESEARCH

### Immunology Research Assistant | DR. CHARBONNIER'S LAB, BOSTON CHILDREN'S HOSPITAL Oct 2020 - Present

- Work in a team on the project **Reprogramming of Regulatory T Cells to Promote Immune Tolerance**
- Perform bioinformatic analysis on RNAseq, ATACseq and ChIPseq data to identify potential gene or pathway of interest using **RStudio, Galaxy, IPA** and **IGV**
- Plan and execute experiments to investigate the role of IL2R-STAT5B signaling and Foxp1 destabilization in a step-wise Treg degeneration schema
- Explore potential therapeutic drugs in a fatally autoimmune Foxp3 deficient mice model
- Work with the animal facility to maintain a mice colony with 100+ cages and 30+ strains
- Manage lab supplies, duties include building inventory, contacting vendors and service providers
- Assist in the maintenance of the Immunology Department **Flow Cytometry Core**, duties include instruments deep cleaning and calibration, troubleshooting for core users, managing supplies, etc.

### Summer Teaching Assistant | JNC & SEMINOLE STATE COLLEGE OF FLORIDA

Jun 2019 - Jul 2019

- Assisted teaching in 3 summer courses: Contemporary Chemistry, General Psychology, and Concepts of Biology
- Elected by the students as 1 of the 5 **Excellent Teaching Assistants** among 25 TAs
- Worked as a briefer to familiarize the US instructors with the life in Shanghai, China

### Summer Biochemistry Lab Assistant | DR. LIANG'S LAB, EMORY UNIVERSITY

May 2018 - Jul 2018

- Worked under the supervision of Dr.Liang and postdoc mentors on the L gene mutation project of the Respiratory Syncytial Virus
- Helped launch the Borna Disease Virus project(cloning, plasmid preparation, etc.)
- Presented results to the lab and trained the incoming student for the unfinished project by the end of the program

## PUBLICATIONS

### **A Stk4 -Foxp3-P65 Transcriptional Complex Promotes Treg Cell Activation and Homeostasis**

*Science Immunology*, 2022, Sep 23, DOI: 10.1126/sciimmunol.abl8357

Ye Cui, Mehdi Benamar, ..., **Yuelin Zhong**, ..., Louis-Marie Charbonnier, Talal A Chatila

### **Notch1-CD22-Dependent Immune Dysregulation in the SARS-CoV2-Associated Multisystem Inflammatory Syndrome in Children**

*Preprint*, DOI: 10.21203/rs.3.rs-1054453/v1

Mehdi Benamar, ..., **Yuelin Zhong**, ..., Louis-Marie Charbonnier, Lauren A. Henderson, Talal A Chatila