

# Qiyue (Amy) Fu

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## EDUCATION

### Boston University

Boston, MA

Bachelor of Arts in Biology, Minor in Psychology. GPA 3.40.

May 2028

**Relevant Coursework:** Cell Biology, Organic Chemistry, Systems Physiology, Calculus, Psychopathology

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## EXPERIENCE

### London South Bank University

London, UK

#### Research Assistant, Synthetic Biology & Molecular Biology

August - December 2026

Supervisor: Dr. Joaquin Caro-Astorga

- Construct four new SubtiToolKit-compatible plasmids that allow genes to be inverted within multigene assemblies in *Bacillus subtilis*, supporting tandem, divergent, and convergent genetic architectures.
- Spearhead an independent research project under academic supervision: define design requirements, design plasmid DNA sequences, select Golden Gate overhangs, and plan cloning workflows and controls.

### Bosmann Lab, Boston University Chobanian & Avedisian School of Medicine

Boston, MA

Research Assistant

January 2024 – Present

Principal Investigator: Dr. Markus Bosmann

- Investigate how polyphosphate–IL-12 interactions drive infection-associated lung inflammation, generating translational insights into innate immune signaling in inflammatory disease.
- Conduct ELISA assays, PCR genotyping, bone marrow isolation, and macrophage differentiation with postdoctoral researchers and the principal investigator, producing reproducible data across 30 experiments.
- Organize and verify datasets in Excel, support statistical analysis for reports on tight deadlines, and present peer-reviewed literature at 10 lab journal clubs.

### Boston University, Department of Psychological & Brain Sciences

Boston, MA

Teaching Assistant

November 2025 – May 2026

- Redesigned undergraduate and graduate psychology courses, including Experimental Social Psychology and Cross-Cultural Psychology, to increase student engagement.
- Developed AI-integrated assignments and gamified learning tools for the redesigned courses.
- Collaborated with faculty and a multidisciplinary team to plan and implement flipped-classroom structures.

### Boston Center for Oral Health

Boston, MA

Dental Assistant

May – August 2025

- Support safe, efficient care for 5 patients per day in a fast-paced clinic, keeping appointments on time through last-minute changes and urgent cases.
  - Maintain patient safety by preparing operatories, providing chairside assistance, and sterilizing instruments in line with OSHA and CDC infection-control protocols.
  - Collaborate cross-functionally with dentists, hygienists and front-desk staff, and communicate with patients to reduce anxiety while protecting confidentiality.
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## Skills & Certifications

**Scientific Areas:** Inflammation & immunology, innate immune signaling, translational research, synthetic biology, assay validation, experimental design.

**Laboratory:** ELISA, PCR genotyping, bone marrow isolation, macrophage differentiation, cell culture, Golden Gate cloning, plasmid design, bacterial transformation, Benchling, DNA sequencing analysis.

**Technical:** Microsoft Excel, PowerPoint, and Word; AI tools for course design.

**Certifications:** Massachusetts Dental Radiology Certification; American Red Cross Adult & Pediatric First Aid/CPR/AED.