

Xiaofei (Fay) Lin, PhD

Computational Biologist ▪ Science Communicator ▪ Mental Health Advocate

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EDUCATION

University of California, Los Angeles – Los Angeles, CA *June 2021*

PhD in Biochemistry, Molecular, Structural Biology (BMSB)

University of California, Los Angeles – Los Angeles, CA *June 2018*

Master of Science in Biochemistry

New York University – New York, NY *May 2016*

Bachelor of Science in Biology, Minors in Computer Science and Chemistry

Cumulative GPA: 3.76/4.0

TECHNICAL SKILLS

Teaching and Speaking: University teaching assistant. Tutoring. Lesson planning. Webinar speaker (Zoom). Workshop leader. Panel moderator and speaker.

Digital Communications: Multi-platform social media campaigns (Twitter, Facebook, Tweetdeck, Instagram). Live and recorded YouTube videos. iMovie video editing. Web design and development (beginner) (Wix, Wordpress). Published writing. Live Twitter chats. Podcasting.

Computational Biology: Computer programming (Python, Java, MATLAB, R, Bash). Mathematical modeling using ordinary differential equations (ODEs). Optimization algorithms. Parallel computing. High throughput data visualization and processing. Systems Biology. Protein structure design and optimization (PyRosetta)

WORKSHOPS, PANELS, PRESENTATIONS

Invited Keynote, “Together Alone: The Untold Stories of Mental Illness in Academia,” Computer Architecture Student Association (CASA). PhD Mental Health Balance Event. Virtual. March 19, 2021.

Moderator, [“Future Careers – A Panel on Careers Outside of Academia,” PhD Balance LLC. YouTube Live. Virtual. January 27, 2021.](#)

Invited Panelist, [“#ElevateTheConvo Twitter Chat – Centering During Times of Uncertainty,” Hosted by Dr. Sally Spencer-Thomas. Virtual. January 22, 2021.](#)

Invited Speaker, [“Changing the Culture of Chemistry: Mental Health in the Lab,” American Chemical Society \(ACS\) Publications. Virtual. January 18, 2021](#)

Invited Panelist, “Anxiety Roundtable,” MeWell Community, ETH Zürich, Switzerland. Virtual. January 7, 2021.

Invited Panelist, “Setbacks and Failures Panel,” University of North Carolina, Chapel Hill, Stigma-Free Carolina. Virtual. October 23, 2020

Invited Panelist, [“#TalkMentalHealthSTEM Twitter Chat,” BioTechniques, Virtual. October 9, 2020.](#)

Invited Panelist, [“SARS-CoV-2 Basic Science Twitter Chat,” BioTechniques, Virtual. June 12, 2020.](#)

Invited Panelist, [“Inclusion, Diversity, Equity, and Accessibility \(IDEA\),” Harvard University, ComSciCon Flagship Workshop. Virtual. June 12, 2020.](#)

Invited Speaker, “Combating Isolation as a Grad Student,” University of California, Los Angeles, Molecular Biology Institute (MBI) Student Seminar. Virtual. May 6, 2020.

Invited Moderator, [“Thriving in Graduate School in the Age of COVID-19,” Chemical & Engineering News \(C&EN\) and American Chemical Society \(ACS\) Education, Virtual Table Talks Event. Virtual. May 14, 2020.](#)

Invited Panelist, [“#COVIDisruption Twitter Chat Series,” Chemical & Engineering News \(C&EN\). Virtual. March 27, 2020.](#)

Invited Facilitator, UCLA Grad Slam Coaching Session for Communicating Research, “University of California, Los Angeles, Graduate Division. Los Angeles, CA. February 11, 2020.

Invited Panelist, “UCLA Grad Slam Showcase,” University of California, Los Angeles, Graduate Division, Alumni Day. Los Angeles, CA. May 18, 2019.

PODCASTS

Host, [“Grad Chat,” PhD Balance LLC. April 2020 – present.](#)

Invited Guest, [“Mind Your Own Mental Health!” Just as it Sounds. November 29, 2020.](#)

Invited Guest, [“Fay Lin: Systemic Issues in Academia,” The Scientistt Podcast. October 28, 2020.](#)

Invited Guest, [“Mental health advocate, Fay Lin, on using Twitter to drive change.” Once a Scientist Podcast, Episode 34. October 14, 2020.](#)

WRITTEN PIECES

Invited Writer, “Grad School Survival Guide – 8 week newsletter,” Chemical & Engineering News (C&EN). November 2020.

Invited Writer, [“WOC Guest Post – What Not To Say to Grad Students during a Pandemic,” The Professor Is In Blog by Dr. Karen Kelsky, April 9, 2020.](#)

Accepted Writer, [“Grad students tell of the coronavirus’s impact,” Chemical & Engineering News \(C&EN\). April 6, 2020.](#)

VIDEO PROJECTS & APPEARANCES

Host, [“Grad Chat,” PhD Balance LLC. YouTube Live. Weekly on Saturdays. April 2020 – present.](#)

Invited Guest, [“Why does isolation suck? Ask me, I’m a Grad Student with Fay Lin,” Ask Me, I’m a Scientist by Dr. Susanna Harris. YouTube Live. April 21, 2020.](#)

Finalist, [“Deciphering the Immune System Code,” UCLA Grad Slam Finals 2019. March 15, 2019.](#)

PUBLIC ENGAGEMENT EXPERIENCE

Social Media Manager

January 2020 – December 2020

UCLA Institute for Quantitative and Computational Biosciences (QCBio)

- Crafted Twitter posts that translated UCLA QCBio academic research, highlighted UCLA faculty, and promoted research seminars and other events
- Actively responded to QCBio breaking news on social media and created QCBio specific hashtags
- Live tweeted QCBio events, including activities for Bruins-in-Genomics (BIG) undergraduate summer research program, and annual QCBio Retreat

PRESS & MEDIA COVERAGE

“Taking on the taboo of depression in STEM.” [UCLA International Women’s Day Profile. UCLA International Institute. Web. March 9, 2021.](#)

“Graduate student voices in the news.” [UCLA C&B Weekly News. This Week in Chemistry & Biochemistry. Web. January 21, 2021.](#)

“Biochemistry graduate student advocates for mental health in STEM fields,” [UCLA C&B Weekly News, This Week in Chemistry & Biochemistry. Web. April 9, 2020.](#)

“UCLA Grad Slam Audience Choice Award,” [UCLA C&B Weekly News, This Week in Chemistry & Biochemistry. Web. March 15, 2019.](#)

OUTREACH EXPERIENCE

PhD Balance LLC *March 2020 – present*

Speaking Team Member

- Host of "Grad Chat," YouTube Live video series and podcast showcasing guests currently or formerly in academia. Topics range from mental health awareness, diversity/equity/inclusion, professional development, and personal growth
- Gives keynote talks, seminars, panel and podcast appearances, on graduate student mental health on behalf of PhD Balance

ComSciCon Los Angeles *July 2020 - present*

Organizing Committee Member

- Updated website/social media, reviewed applications, gathered funding, recruited speakers for the inaugural ComSciCon LA virtual communicating science workshop for grad students scheduled for April 2021

UCLA Graduate Programs in Biosciences (GPB) *Fall 2019 - present*

Mental Health Subcommittee Member

- Attended faculty meetings to communicate student concerns regarding mental health awareness in graduate programs
- Organized wellness talks/panel discussions for an audience of students, faculty, and staff
- Disseminated mental health resources to the university population in the form of posters, flyers, and email

MENTORSHIP EXPERIENCE

New York University – Carlyle Court Residence Hall *Fall 2015 – Spring 2016*

Resident Assistant

- Academic resource and peer counselor for approximately 50 upperclassmen residents in academic work, roommate relations, wellness concerns, and community development
- Organized social and academic floor-wide and dorm-wide community building events
- Responded to emergency and crisis situations while on-duty
- Performed administrative tasks for residence hall maintenance (ex. logging mail/packages, fire-safety room checks, etc.)
- Responsible for enforcing dorm policies

TEACHING EXPERIENCE

University of California, Los Angeles – Department of Chemistry & Biochemistry *Jan 2017 – June 2018*

Teaching Assistant

- Biochemistry courses taught: Introduction to Structure, Enzymes, and Metabolism (153A) (Spring 2017 and Spring 2018); DNA, RNA, Protein Synthesis (153B) (Winter 2017)
- Taught lessons in a classroom setting for discussion sections of 20-30 students
Responsible for grading exams and holding weekly office hours

New York University - Courant Institute of Mathematical Sciences *Summer 2015*

Undergraduate Peer Tutor

- Tutor for Introduction to Computer Programming (Python) (CSCI-UA.2)
- Tutored students in both one-on-one and group setting in general computer programming concepts in Python

SCIENCE RESEARCH EXPERIENCE

UCLA Department of Microbiology, Immunology, and Molecular Genetics *June 2018 – present*

Graduate Research Assistant - Advisor: Dr. Alexander Hoffmann

- Developed a single cell data trained mathematical model from time lapse fluorescent microscopy data to represent the NF κ B signaling system

New York University – Department of Biology Jan 2015 – June 2016

Undergraduate Research Assistant – Advisor: Dr. Richard Bonneau

- Undergraduate honors thesis: Investigating GID, α -conotoxin with an extended N-terminal sequence, as a candidate for neurological drug design
- Rosetta Commons Summer Undergraduate Intern (2015)
- Used PyRosetta (Python interface to the C++ Rosetta molecular modeling suite) to develop protocol in protein structure refinement, ligand docking, and protein design

SCIENTIFIC POSTER PRESENTATIONS

Lin X, Adelaja A, Taylor B, Hoffmann A. Developing a mathematical model of NF κ B activity in single macrophages in response to pathogens and inflammatory cytokines. **UCLA QCBio Retreat, September 2019**. Los Angeles, CA

Lin X, Mitchell S, Tang Y, Adelaja A, Taylor B, Hoffmann A. Exploring the stimulus specificity of the dynamic NF κ B signaling code. **International Conference on Systems Biology for Human Diseases, June 2018**. Los Angeles, CA.

Lin X, Leffler AE, Bonneau R. Analyzing the Molecular Interactions of the α -GID/ α 4 β 2 Receptor Complex: An Evaluation for Drug Design. **Rosetta Conference, July 2015**. Leavenworth, WA.

AWARDS AND HONORS

UCLA Grad Slam Audience Choice Award – March 2019

- Awarded \$1,000 for receiving the most audience votes for the best 3 minute thesis

NSF Graduate Research Fellowship Program (GRFP) Honorable Mention – March 2018

- Supports outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines who are pursuing research-based master's and doctoral degrees at accredited United States institutions.

NYU Presidential Honors Scholar – Fall 2013- Spring 2016

- The Presidential Honors Scholars represent the top 5-10% of the NYU College of Arts & Science (CAS) class and are expected to maintain a 3.65 GPA and above. Scholars receive special advising from CAS faculty, study abroad intersession, access to honors courses, and engage in community service events throughout their undergraduate career.

NYU Women in Science (WINS) Scholar – Fall 2013 – Spring 2016

- WINS scholars receive annual scholarship funds, individual mentoring and unique research opportunities, participate in community service outreach events, and work to raise overall awareness of women in the STEM fields.

FELLOWSHIPS

[UCLA Cellular and Molecular Biology Training Grant](#) - 2018-2020

[Rosetta Commons Summer Undergraduate Internship](#) – Summer 2015

[NYU Dean's Undergraduate Research Fund \(DURF\)](#) (Two \$1000 grants) – 2014-2015