

EDUCATION

B.S. in Symbolic Systems (Honors Thesis in Neural Tissue Engineering), Minor in Art History (Honors in the Arts); M.A. in Public Policy (Coterminal), Stanford University | GPA: UG 4.06, GR 4.3 | Expected June 2026

RESEARCH

- Heilshorn Biomaterials Group, Research Assistant**, September 2023 – Present • Characterized neuronal differentiation trajectories in patient-derived iPSCs by developing 2D hiPSC-derived cortical neuron cultures and 3D neuroepithelial organoids encapsulated in engineered hydrogels. • Managed iPSC culture maintenance and hydrogel synthesis, gaining expertise in materials chemistry and neural differentiation protocols to inform disease modeling and regenerative applications.
- Center for Science & Law, Neurolaw Research Fellow**, April 2023 – June 2024 • Engineered data systems and statistical analyses for NeuroRisk pilots evaluating arrest diversion and reentry programs. • Findings and tools adopted in Harris County, TX, informing reforms in pre-charge intake processes to improve fairness and reduce reoffense rates.
- Wagner Memory Lab, Research Assistant**, November 2022 – October 2023 • Investigated how eye movements and perceived navigational strategies shape the relationship between memory accuracy and retrieval confidence, using computational modeling, EEG, and MRI.

PUBLICATIONS (ORCID ID: 0000-0002-3780-6775)

- Peer-Reviewed Articles:
 - *Matrix Biophysics Regulates Early Neuroepithelium Formation*, Manuscript in Preparation (2025, co-author).
 - *Tuning Viscoelasticity of Dynamic Covalent Hydrogels for Human Tissue Modeling*, submitted to *Advanced Functional Materials*, Awaiting Publication (2025, co-author).
 - *The Rite of Rights: An Examination of Socio-Cultural Precedent in Japanese Law*, Texas Undergraduate Law Journal (2023).
- Letters to the Editor:
 - *Treating Neurodegenerative Disease: Nusinersen and Other Therapeutic Strategies for Improved Motor Function*, *Brain & Development* (2023, PMID: 37003866, first author)
 - *Awareness of Sex and Gender Dimensions Among Physicians: The European Federation of Internal Medicine Assessment of Gender Differences in Europe (EFIM-IMAGINE) Survey - Comment*, *Internal & Emergency Medicine* (2023, PMID: 36371575, first author)
 - *Regarding the Impact of Maternal Dyslipidemia on Infant Neurodevelopment*, *Brain & Development* (2022, PMID: 36175296, co-author)
- Conference & Poster Presentations:
 - *Patient-Specific Neuroepithelial Organoids in Synthetic Hydrogels Reveal Early Neural Fate Dynamics*, Bio-X Interdisciplinary Initiatives Symposium & Asilomar Ethical and Societal Implications of Neural Organoids (2025).
 - *The Experience of Memory: How Eye Movements Inform the Relationship Between Memory Accuracy and Retrieval Confidence*, Association for the Scientific Study of Consciousness Conference, New York, NY (2023).
 - *Confidence and Perceived Navigational Strategies Predict Memory Precision*, Bay Area Memory Meeting & Stanford Bio-X Interdisciplinary Initiatives Symposium, Stanford University (2023).
 - *Ocular Expressions of Memory: Exploring How Learning Changes Eye Movements*, Bio-X Interdisciplinary Initiatives Symposium (2023).

AWARDS: Schwarzman Scholar (November 2025), Rhodes Finalist (November 2025), Coolidge Student Essay Contest Finalist (October 2025), Hume Honors Fellow (October 2025), UN Millennium Fellow (August 2025), Inflection Grants Compute Recipient (July 2025), 2025 Bessemer Fellow (May 2025), Emergent Ventures Grant Recipient (May 2025), Braden Storytelling Grant Recipient (April 2025), StartX Student-in-Residence (April 2025), TIME Initiative Fellow (March 2025), Slavin Family Foundation Fellow (February 2025), Stanford Constitutional Law Center Undergraduate Fellow (October 2024), Pear Garage Fellow (September 2024), Stanford SURPS Award (September 2023), Stanford Bio-X Grant (February 2023 & February 2025), Coca-Cola Scholar (April 2022), UNA-USA Community Service Ambassador Award (March 2021), Special Congressional Recognition for Invaluable Public Service (June 2021)

PROFESSIONAL EXPERIENCE

- ArticleIP [articleip.com], Co-Founder & CEO**, January 2025 – Present • Built patent-in-a-box platform with novel R-group decomposition (patent pending) converting complex inventions into USPTO-ready drafts and streamlining IP protection. • Reached 907 innovators with 15+ partnerships, piloting with 3+ enterprises & institutions and reducing drafting time by 85%.
- Kadance Law Group, Co-Founder & Technical Specialist**, January 2025 – Present • As a law firm founder, provided technical expertise in biotech and AI patent prosecution, translating complex inventions into filings supporting high-stakes IP portfolios. • Enabled clients to file patents 2x faster, protecting innovations in emerging tech.

Mural Health, Strategy & Ops - Bessemer Fellow, June 2025 – August 2025 • Partnered with Samuel Whitaker (CEO) on the Harley Jacobsen Act's reintroduction in Congress, a bill exempting all clinical trial participant payments from gross income.

- Spearheaded global participant support whitepapers with ICH & WHO, shaping international trial guidelines.
- Led clinical site adoption strategy and designed Mural's AI playbook to scale efficiency and innovation.

Kate Therapeutics, Business Development Consultant, June 2024 – September 2024 • Shaped commercial strategy for gene therapies targeting neuromuscular diseases by leading market, disease burden, and NPV analyses.

- Contributed to positioning the company for its \$1.1B acquisition by Novartis (November 2024), advancing next-generation AAV gene therapy platforms.

Marchesi Frescobaldi società Agricola, Innovation Consultant, July 2024 • Developed a strategic proposal for differentiated loyalty models (regional, multi-brand, and experiential) to enhance brand engagement and broaden the appeal of Frescobaldi's wine heritage across diverse consumer segments and unique Italian terroirs.

Investments in Today's Market: Stocks, Venture Capital, Biotech, and AI, Course Assistant, April 2024 – December 2024

- Taught and mentored 132 students, including adult professionals, in applying concepts of equity valuation, venture capital diligence, post-modern portfolio theory, and AI-driven investing.
- Supported instruction across weekly modules covering topics such as startup risk assessment, biotech valuation case studies, institutional portfolio construction, and the democratization of investing.

Morgan Stanley, Private Equity Strategy Consulting Analyst, April 2024 – June 2024 • Developed a Python-based analytics system mapping macroeconomic impacts on private equity firm formation, spin-outs, and AUM growth trends.

- Produced research insights informing strategic decisions for senior leadership amid shifting interest rate environments.

Palkon Capital Management, Research Analyst, August 2023 – May 2024 • Conducted deep-dive market and scientific diligence on early- and late-stage biotech and med-tech companies to inform investment decisions in therapeutics addressing unmet medical needs.

- Supported the evaluation of global pipeline assets and company fundamentals, contributing to portfolio strategies within a \$300M capital base.

COMMUNITY IMPACT

Cantor Arts Center, Student Advisory Committee Treasurer, April 2025 – Present • Selected as 1 of 3 students leading engagement by connecting Stanford students with the museum, advising on inclusive programming, and supporting gallery events and publishing.

- Organized major events (2,000+ RSVPs) and programs (workshops, live drawing, etc.) to expand community engagement.

Nucleate, DojoGrants Co-Managing Director, November 2023 – Present • Secured \$320,000+ to sustain and expand programs, directly impacting 250+ students and coordinating an international network of 1,725 researchers.

- Lead the undergraduate life sciences scholarship program (DojoGrants), receiving 2,500+ applications across 3 cycles to date.
- Coordinate programming with the Federation for American Scientists and bioscience sponsors to advance early-stage innovation.

Stanford Biotechnology Group (Undergraduate Committee), President, August 2023 - Present • Lead Stanford's largest undergraduate biotech division (554+ members), organizing 15+ events and panels that reached 1,000+ students and early-career researchers in translational biotech and venture.

- Hosted the group's first-ever partnership with StartX, connecting 220+ student founders with Stanford's startup accelerator and early-stage investors.

Stanford Technology Law Review, Undergraduate Managing Editor & Articles Committee, October 2022 - Present • Only undergraduate elected to the Articles Committee (Winter 2023, Summer 2025), contributing to editorial decisions and peer review.

- Collaborate with J.D. and Ph.D. editors to shape legal discourse read across academic, industry, and policy audiences.
- Publish and research on law and policy at the intersection of technology, AI, and biotech.

Consult Your Community, Stanford Branch President, September 2022 - June 2025 • Led Stanford's chapter of the national nonprofit, organizing pro-bono consulting projects supporting small businesses, nonprofits, and community organizations.

- Directed 10+ strategy and operations projects involving 70+ student consultants, resulting in tangible impact for underserved communities.
- Spearheaded the first-ever partnership with Sunday Friends in San Jose, expanding our reach to 196 families and 906 individuals per month.

No Patient Left Behind, Senior Fellow, September 2024 - August 2025 • Directed a national rare disease policy initiative on drug pricing reform and equitable clinical trial access, impacting 30M+ Americans with rare diseases and engaging 50K+ stakeholders nationwide.

- Managed and coordinated a 35-member national team to conduct cross-disciplinary research, engage with key stakeholders (regulators, advocates, industry), and shape policy proposals.
- Amplified patient impact through policy briefs and public education campaigns reaching 10,000+ stakeholders, including lawmakers, biotech executives, and advocacy leaders.

Stanford Office of Digital Education & National Education Equity Lab, CS 105 Teaching Fellow, September 2023 – December 2024 • Taught Stanford's CS 105 to 250+ Title I high school students each fall quarter, supporting college readiness in computer science.

- Led weekly classes and office hours mentoring underrepresented STEM students.
- Collaborated with faculty and national partners to expand equity through scalable digital learning.

Hobbies: Choreography for Stanford Light Opera Company (SLOCO): The Hunchback of Notre Dame (Spring 2025), Mary Poppins (Spring 2024) & Dragfest (Heatwave, Spring 2024); skiing (Stanford Alpine Ski Racing Team - Women's Division); running (training for an IronMan 70.3); traveling; and Bulgarian folklore dance (Bay Area groups *Ripni Kalinke, Voditsa*).