

ORION GOODMAN

MASTER RESUME | COMPREHENSIVE WORKING VERSION

oagoodma@syr.edu | (510) 712-0723 | linkedin.com/in/orion-goodman

EDUCATION

Syracuse University | College of Engineering and Computer Science

Expected June 2027

B.S. Biomedical Engineering; Integrated Learning Major in Neuroscience | Syracuse, NY

Academic focus Neural engineering, computational neuroscience, biosignal processing, bioinstrumentation, AI for health, consciousness research, and responsible emerging technology

Selected coursework Bioinstrumentation; Neuroscience Laboratory; Engineering Materials, Properties & Processing; additional engineering, mathematics, physiology, and neuroscience coursework

Prior education Lick-Wilmerding High School, San Francisco, CA | High School Diploma, May 2022

LEADERSHIP, AI ORGANIZING & INSTITUTION BUILDING

Founder & President | United AI, Syracuse University

Jan 2025 – Present

- Founded and lead Syracuse University's first student-led interdisciplinary artificial intelligence organization, growing the community to 200+ members across all Syracuse colleges and schools, with an 11-person executive board and nine faculty advisors spanning engineering, policy, information science, media, business, arts, and the social sciences.
- Set organizational strategy and oversee education, technical projects, public impact, partnerships, membership, communications, events, creative direction, and leadership development, while coordinating executive-board and faculty relationships across the university.
- Built a member journey designed to move students from AI literacy and interdisciplinary discussion into hands-on projects, research, public-interest work, leadership roles, venture development, and external opportunities.
- Developed partnerships and working relationships with Microsoft, Anthropic, the Autonomous Systems Policy Institute, Syracuse University academic leadership, Blackstone LaunchPad, and external technology, policy, and innovation organizations to expand mentorship, tools, speakers, challenges, and member opportunities.
- Created recurring programming including expert seminars, build nights, workshops, hackathons, project competitions, pitch and demo cycles, interdisciplinary discussions, and public-facing events for both technical and nontechnical students.
- Helped develop peer-led university AI literacy efforts with Syracuse academic leadership, including recruitment of student facilitators and practical instruction around responsible use, context windows, prompting, conversation hygiene, critical evaluation, and limitations of AI systems.
- Leading early design of a broader university network model focused on forming high-agency student leaders, supporting campus chapters, developing shared curriculum and organizer training, and connecting students to serious work in AI safety, governance, technical projects, public impact, research, and mission-aligned ventures.

Principal Organizer & Moderator | United AI Summit 2026, Syracuse University

Apr 25, 2026

- Led the end-to-end creation and execution of a university-wide AI summit that drew 250+ students, faculty, alumni, and industry guests for five hours of programming across the K.G. Tan Auditorium and National Veterans Resource Center Grand Hall.
- Produced a 12+ team student and lab showcase, two moderated panels, three keynote talks, opening remarks, and a reception, integrating researchers, founders, technologists, policymakers, student builders, and campus institutions into one event.
- Recruited and coordinated 10 speakers, including voices from NVIDIA, Turing Intelligence, Lamarr.AI, CSIS, Syracuse University, INSPYRE, Flox Intelligence, American High, and other technology and public-policy organizations.
- Moderated the Applied AI panel on deployed AI systems, computer vision, generative AI, and public-sector tooling, and coordinated the broader event narrative, production, partnerships, speaker logistics, volunteers, showcase flow, and attendee experience.
- Worked with partners and participating organizations including Syracuse University, NVIDIA, Turing Intelligence, the Academic Alliance for AI Policy, CSIS, Lamarr.AI, Flox Intelligence, INSPYRE Innovation Hub, Hidden Level, American High, ATLAS, and multiple student clubs and research labs.

Program Builder | United AI Public Impact & Fellowships

2026 – Present

- Oversee the evolution of Civic Futures, a selective student program examining AI governance, public institutions, labor, democracy, inequality, power, ethics, and the societal consequences of technological change.
- Civic Futures recruited 20+ applicants for an initial five-student cohort, which met weekly and produced policy analysis and a prediction-oriented report presented at the United AI Summit.
- Developing a Fall 2026 Public Impact Fellowship centered on AI governance and technology policy research, public writing, advocacy and awareness, democratized access, civic education, institutional work, and community-facing initiatives.
- Supporting development of the United AI Builders Fellowship, a structured 10-week academic and entrepreneurial project pathway using external mentors, partner resources, API credits, and public demonstration to help teams move from problem selection to durable output.
- Helped shape cross-college representation and engagement structures so students from policy, engineering, media, arts, business, health, information science, and other disciplines can influence organizational priorities and programming.

Claude Builder Ambassador | Anthropic, Syracuse University 2025 – 2026

- Partnered with Anthropic through its campus builder program to expand student access to Claude Pro, Claude Code, educational resources, and practical support for AI-enabled work across technical and nontechnical disciplines.
- Organized and promoted Claude-focused build nights, workshops, hackathon programming, watch parties, and hands-on sessions designed to help students move from passive model use into effective and responsible building.
- Worked with Anthropic representatives on campus adoption, student use cases, product feedback, and cross-disciplinary applications of AI in research, learning, coding, design, and project development.

University Ambassador | SETI Institute Constellations Program Dec 2025 – Present

- Selected to support campus engagement with astronomy, astrobiology, and the scientific search for extraterrestrial intelligence, helping connect students to public-facing science communication and interdisciplinary exploration.

Internal Development Chair | Orange Seeds, Syracuse University 2024 – 2025

- Served on the executive board of Orange Seeds after selection into its 24-student cohort, supporting cohort development, internal culture, peer leadership, and community-building among emerging campus leaders.
- Previously participated in the 2023–2024 Orange Seeds cohort, developing leadership, facilitation, collaboration, and service experience across Syracuse University.

Standards Committee Member | Pi Kappa Phi, Syracuse University Dec 2024 – 2025

- Supported chapter accountability and internal standards through peer deliberation, conduct review, and community expectations.

RESEARCH EXPERIENCE

Research Assistant | Institute for Advanced Consciousness Studies, Remote Summer 2026

- Research the measurement, analysis, and modulation of conscious experience, with a focus on how large-scale brain-network organization shapes individual response to low-intensity transcranial focused ultrasound stimulation (tFUS).
- Analyze multimodal neuroimaging data from structural MRI, resting-state fMRI, and diffusion MRI/DTI to characterize functional and structural connectivity involving the caudate, ventral anterior insula, posterior cingulate cortex, and canonical brain networks.
- Build and validate algorithms that test whether pre-modulation connectivity can predict individual changes in subjective meditative depth and intensity following tFUS, using cross-validation, permutation testing, and reliability-aware modeling.
- Develop reproducible Python and R pipelines for behavioral response construction, quality control, reliability estimation, sensitivity analysis, feature specification, and eventual integration of imaging predictors with behavioral outcomes.
- Evaluate competing explanations for response heterogeneity, including target-specific connectivity and modeled in-situ ultrasound exposure, while maintaining prespecified confirmatory, secondary, and exploratory analyses and strict leakage controls.

Undergraduate Research Assistant | Blatchley Laboratory, Syracuse University Jan 2025 – Present

Engineering Dynamic Tissue Microenvironments

- Use expansion microscopy and fluorescence imaging to study intestinal organoids and how engineered extracellular microenvironments influence cellular growth, differentiation, morphology, and tissue organization.
- Conduct quantitative and classification-based image analysis in FIJI/ImageJ and Python and present findings in weekly lab meetings with graduate researchers and the principal investigator.
- Developed 2D and 3D membrane-to-cell segmentation workflows for organoid imagery, including preprocessing, ridge enhancement, thresholding, watershed-style segmentation, and handling of anisotropic voxel spacing.

- Collaborate with a multidisciplinary research team developing benchtop tissue models that better reproduce in-vivo conditions for mechanistic study and drug-testing applications.
- Research context includes Matrigel and engineered PEG hydrogels, laminin-derived peptides, viscoelastic matrix relaxation, phototunable biomaterials, crypt-villus morphogenesis, and oxygen-gradient effects on intestinal tissue.

Neuroscience Research Intern | [Hawaii Pacific Neuroscience, Honolulu, HI](#)

Jun 2025 – Aug 2025

BRAIN Internship

- Analyzed clinical and neurophysiological data from a 375-patient cohort to investigate neuropathy patterns in diabetic and non-diabetic populations and support reproducible clinical research reporting.
- Processed EEG and behavioral datasets with Python, NumPy, and pandas; prepared features for supervised classification using random forest and support vector machine approaches.
- Connected technical outputs to clinically meaningful questions in neurotechnology, diagnosis, brain health, and patient-centered care while working in an interdisciplinary neuroscience environment.

INDUSTRY & PRODUCT EXPERIENCE

AI & Software Engineering Intern | [Vantage AI, Remote](#)

Dec 2024 – Aug 2025

- Designed and built EnFlow, a macOS SwiftUI application integrating Apple Health and Calendar data to forecast stress, recovery, energy, and daily readiness and support adaptive scheduling.
- Developed and integrated a custom LSTM-based time-series model using biometric and behavioral data, translating model outputs into a consumer-facing interface for personal performance forecasting.
- Led a TestFlight beta with structured user testing and feedback, iterating across data ingestion, feature engineering, model behavior, interface design, habit-tracking workflows, and user experience.
- Worked across product design, software engineering, machine learning, and human-centered experimentation rather than treating model performance as the sole product objective.

SELECTED TECHNICAL & DESIGN PROJECTS

Hands-Free Accessible AI Assistant | [Independent / Coursework Project](#)

2024 – 2025

- Built a Python workflow for visually impaired users combining hands-free input, OCR, GPT-4 text analysis, and text-to-speech using Google Cloud Vision and gTTS.
- Processed 20,000+ images during testing with more than 10 users, using repeated feedback to improve interaction flow, accessibility, and reliability.

Solar Distillation System | [Syracuse University SOURCE Project](#)

2024

- Modeled and evaluated a solar water-purification system in Fusion 360, iterating on design choices to improve distillation efficiency relative to initial benchmarks.
- Presented the system and design process at the Syracuse University SOURCE Projects Symposium.

Organoid Image Segmentation Workflows | [Blatchley Lab](#)

2025 – 2026

- Built custom 2D and 3D Python image-processing workflows to infer cell boundaries from membrane-labeled microscopy data, with explicit treatment of microscopy resolution and anisotropic spacing.

PRESENTATIONS & PUBLIC COMMUNICATION

- **Moderator, Applied AI Panel, United AI Summit 2026.** Facilitated discussion among technical and industry speakers on deployed AI, computer vision, generative systems, and public-sector applications.
- **Presenter, Syracuse University SOURCE Projects Symposium.** Presented solar-distillation engineering work and design rationale to a university research audience.
- **Technical presentation, bioinstrumentation coursework.** Delivered an in-depth presentation on EEG measurement mechanisms and signal interpretation.
- **Ongoing communication.** Regularly present organizational strategy, project work, research progress, partnership proposals, and AI education material to students, faculty, university administrators, researchers, and external partners.

CERTIFICATIONS & RESEARCH TRAINING

CITI Biomedical Research training; HIPAA training; Good Clinical Practice (ICH) training; Protection of Human Research Participants training; Belmont Report and IRB-related research ethics modules

TECHNICAL SKILLS

Programming & software Python, Swift, SwiftUI, pandas, NumPy, scikit-learn, R, Git-based workflows, Apple Health and health-data integration

Machine learning & data Time-series modeling, LSTM models, random forests, support vector machines, feature engineering, classification, data visualization, reliability analysis, repeated-measures analysis, sensitivity analysis

Imaging & engineering FIJI/ImageJ, fluorescence and expansion microscopy analysis, 2D/3D segmentation, Fusion 360, biomedical instrumentation, physiological-signal analysis

AI systems & tooling Claude, Claude Code, GPT-based workflows, OCR pipelines, multimodal AI applications, responsible AI use and evaluation

LEADERSHIP & OPERATING SKILLS

Organization building Strategy, executive leadership, recruiting, team design, member systems, program architecture, chapter and network planning, documentation, and organizational operations

Partnerships & external relations Faculty relations, university administration, industry partnerships, speaker recruitment, sponsorship, mentor networks, partner program design, and external outreach

Programs & events Summit production, panel moderation, hackathons, build nights, workshops, fellowships, project cycles, public-impact programming, curriculum design, facilitation, and public speaking

RESEARCH & INTELLECTUAL INTERESTS

AI safety and governance; responsible innovation; neural engineering and brain-computer interfaces; computational neuroscience; consciousness science; bioinstrumentation; AI for health; organoid intelligence; human agency; institutional adaptation; technology policy; public-interest technology; and the social consequences of advanced AI