

OLGA LAVINDA, PhD

AI PRODUCT & IMPLEMENTATION | CONSULTING | RESPONSIBLE AI
New York, NY | 347-279-2000 | lavinda@healthai.com | linkedin.com/in/olavinda | lavinda.ai

PROFILE

Scientist, founder, educator, and hands-on AI builder with 10+ years across applied AI, product development, consulting, scientific research, and higher education. Turns real operating problems into practical AI systems: discovers workflows, identifies where commercial tools are sufficient, where automation adds value, and where custom solutions are warranted, then carries the work through implementation, evaluation, training, and adoption. PhD chemist experienced in high-stakes environments where privacy, evidence quality, validation, data handling, and human judgment matter.

ROLE FIT: AI workflow discovery & implementation | AI product & implementation | Training & coaching | Responsible AI & governance

SELECTED FIT FOR AI IMPLEMENTATION & ADOPTION

Workflow discovery & implementation	Client needs assessment; tool selection; AI-augmented workflows; automations; custom solutions; implementation support
Training & coaching	Adult-learning curriculum; workshops; webinars; one-on-one coaching; role-specific enablement; practical documentation
Responsible AI & governance	Privacy and data handling; evidence quality; validation; human review; failure modes; monitoring; responsible-use frameworks
Programs & partnerships	Program design; stakeholder discovery; pilots; external collaborations; leadership communication; outcomes and impact documentation

PROFESSIONAL EXPERIENCE

Clinical Assistant Professor of Chemistry & Principal Investigator | Yeshiva University | New York, NY | 2025–Present

- Lead an AI-enabled computational chemistry and structural-biology research program; translate frontier-model outputs into reproducible validation pipelines, experiments, conference presentations, manuscripts, and grant proposals.
- Built a documented research-training system with explicit review gates and human judgment checkpoints; supervise teams using frontier AI, Python/automation, structural controls, and experimental validation.
- Developed and implemented responsible-AI and AI-literacy frameworks in two STEM courses and within the research program, teaching students to evaluate model outputs, recognize failure modes, verify evidence, and identify decisions that must remain subject to human judgment.
- Contribute to institutional AI adoption through responsible-use, research-access, security, faculty-readiness, and implementation discussions; translate emerging capabilities into practical guidance for users with different technical backgrounds.
- Serve as faculty advisor for the ACS student chapter and coordinate research, student development, presentations, and external scientific engagement across academic units and partner organizations.

Founder & CEO / Scientific AI Product & Programs Lead | Health AI | New York, NY | 2019–Present

- Founded and direct an independent scientific-AI company spanning evidence systems, AI evaluation, workflow automation, research/education programs, and agent infrastructure; own problem definition, product strategy, technical delivery, client discovery, partnership development, and commercialization.
- Directed Clarity from user problem to production across 4M+ scannable products and 29K+ evidence-graded ingredient records; translated complex evidence workflows into requirements, acceptance criteria, controlled release, API/MCP access, and user-facing decisions.
- Design AI-literacy, training, and workshop programs around role-specific workflows, critical evaluation, evidence, governance, and measurable adoption; translate user and organizational constraints into practical implementation and enablement.
- Won a competitive enterprise AI RFI and translated the customer workflow into a deployed field-scanning solution validated on 203 vehicles; published a dual-model consensus evaluation reaching ~95% accuracy on high-confidence agreed fields.
- Built RIGOR, a lifecycle-validation approach connecting requirements, implementation, governance, operational evidence, human review, and ongoing monitoring for high-stakes AI systems.

Operations Manager | Molecular Design Institute, New York University | New York, NY | 2016–2020

- Managed operations and stakeholder coordination across four drug-discovery initiatives, bridging investigators, research design, clinical collaborators, resourcing, project execution, and commercialization planning.
- Worked across technical and non-technical stakeholders in a highly funded interdisciplinary environment, developing practical fluency in project leadership, institutional processes, workflow coordination, and translation from discovery toward implementation.

NIH NRSA Postdoctoral Fellow | NYU Langone Health | New York, NY | 2016–2019

- Led collaborative computational drug-discovery and cutaneous-biology research spanning chemistry, structural modeling, experimental biology, and clinician collaboration; supported by two NIH Kirschstein NRSA awards.
- Worked across scientists, clinicians, trainees, research operations, and translational stakeholders; completed training in technology transfer, IP, business-plan development, and the institutional barriers between discovery and commercialization.

Director | NIDA-Sponsored Summer Undergraduate Research Program, NYU | New York, NY | 2017–2018

- Directed an NIH/NIDA-sponsored undergraduate research-training program, coordinating research placements, faculty and trainee engagement, program delivery, mentoring, and scientific development.

Life Sciences Consultant / Scientific Communications Liaison | GeneCentrix | New York, NY | 2018–2020

- Consulted with biotechnology leadership on scientific validation, partner materials, funding narratives, and commercialization strategy; contributed to grant and partnership work associated with \$1.5M in secured funding.

Faculty / Lecturer | CUNY and New York University | New York, NY | 2011–Present / 2016–2020

- Teach chemistry across multiple New York City campuses and learner populations; design curricula, coach students individually and in groups, and translate complex scientific and technical concepts for audiences with widely varying starting points.

SELECTED AI IMPLEMENTATION, TRAINING & RESEARCH

- AI implementation & evaluation: build and test AI-enabled workflows, automations, evidence systems, and human-in-the-loop evaluation approaches across healthcare, education, scientific research, and enterprise use cases.
- AI literacy & responsible use: developed and presented validation-first approaches that train users to evaluate model outputs, assumptions, evidence, privacy/data constraints, and failure modes rather than treating AI answers as authoritative.
- ACS Fall 2026: presented Teaching with AI Without Losing the Student, a structured framework for AI literacy integration emphasizing critical evaluation, failure-mode recognition, verification, and human judgment.
- Training & enablement: develop workshops, curricula, documentation, and one-on-one guidance that move users from general AI awareness toward repeatable, useful workflows appropriate to their roles and constraints.

EDUCATION & PROFESSIONAL DEVELOPMENT

PhD, Chemistry — New York University, 2017 | Master's degree, Education & Psychology | Honors BA, Chemistry & Biology with CIS — CUNY, 2011
 NYU Grossman School of Medicine — Health Innovations & Therapeutics; Essentials of Project Management; Managing Multiple Projects; Project Leadership: Managing Without Authority; Leading a Project Team

2× NIH Ruth L. Kirschstein NRSA Fellow | Eugene M. Farber Award, Society for Investigative Dermatology | Henry M. MacCracken Fellowship

TECHNICAL & DOMAIN FLUENCY

AI implementation and adoption; workflow discovery; product and organizational consulting; AI literacy; training and curriculum design; one-on-one coaching; responsible AI; governance and data handling; AI evaluation; evidence/provenance; human-in-the-loop review; workflow automation; OpenAI/Codex and frontier-model workflows; Python; SQL/Postgres; REST APIs; MCP; scientific communication; workshops and stakeholder enablement.

SELECTED PUBLICATIONS & RESEARCH OUTPUTS

Lavinda O. et al. “Biophysical Compatibility of a Heterotrimeric Tyrosinase–TYRP1–TYRP2 Metalloenzyme Complex.” *Frontiers in Pharmacology* 12 (2021). Additional peer-reviewed publications in computational/organic chemistry and structural chemistry; 2026 work includes chemistry-aware AI structure validation, AI literacy in chemistry, and technical publications on scientific/enterprise AI evaluation.