

OLGA LAVINDA, PhD

HEALTHCARE AI DEPLOYMENT | TECHNICAL SUCCESS | REGULATED WORKFLOWS

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SUMMARY

Scientific and technical deployment leader with 10+ years across life sciences, healthcare technology, research, and customer-facing programs. Translates complex workflows into deployable AI systems, adoption roadmaps, evaluation plans, and clear stakeholder decisions. Founder and principal scientist directing Clarity, its twelve-tool Clarity MCP interface, MCP Queen, and Constat/Radar; computational chemist and PI with deep experience in evidence, validation, and regulated-domain communication.

CORE STRENGTHS

Workflow discovery & requirements | Technical delivery leadership | Customer enablement | Adoption roadmaps & KPIs | AI evaluation & acceptance criteria | Regulated-domain translation | API/MCP integration fluency | Cross-functional program management

PROFESSIONAL EXPERIENCE

Founder & Principal Scientist / AI Deployment & Product Lead | Health AI | New York, NY | Nov 2019–Present

- Directed Clarity from user problem to production: 4M+ products scannable, 29K+ evidence-graded ingredient records, and 32 decision dimensions across food, supplements, skincare, pregnancy, histamine/MCAS, allergy, asthma, fertility, and dermatology.
- Mapped high-stakes user and product workflows into staged roadmaps, system requirements, acceptance tests, and fail-closed behaviors for incomplete labels, ambiguous ingredients, conflicting evidence, and low-confidence product identity.
- Led multi-workstream agentic engineering delivery across Supabase/Postgres, Cloudflare Workers, APIs, scanner, checker, chat, and MCP surfaces; owned architecture, sequencing, verification gates, and release readiness.
- Created technical enablement across the current product system: Clarity's production API and twelve-tool Clarity MCP interface, MCP Queen's deterministic trust grading and evidence receipts, and Constat/Radar's 13 current public MCP tools.
- Won a competitive enterprise tire-industry AI RFI and translated the workflow into a scanner validated on 203 vehicles; separately published a dual-VLM consensus method reaching approximately 95% accuracy on high-confidence fields where both models agreed.
- Designed the RIGOR lifecycle-validation approach for high-stakes AI, connecting model state, evidence state, deployment monitoring, and human review instead of treating validation as a one-time prelaunch check.

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

- Lead interdisciplinary research teams validating AlphaFold 3 predictions against chemistry, reproducibility, structural controls, enzyme assays, and systems-level models; translate uncertain technical findings into clear next-step decisions.
- Supervise graduate and undergraduate researchers through structured milestones, review gates, presentations, and publishable work; develop AI-literacy curriculum for scientific users.

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

- Translated research, validation, commercialization, and partner requirements for biotechnology leadership; contributed to grant and partnership work associated with \$1.5M in secured funding.

Operations Manager | Molecular Design Institute, NYU | New York, NY | Sep 2016–Jan 2020

- Coordinated four drug-discovery workstreams spanning investigators, clinicians, research operations, project design, and commercialization planning.

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

- Led collaborative computational drug-discovery and cutaneous-biology research; communicated across chemistry, biology, clinical, and translational stakeholders.

ADDITIONAL LEADERSHIP

Director, NIDA-Sponsored Summer Undergraduate Research Program, NYU (2017–2018) | Lecturer, Chemistry, NYU (2016–2020) | Contract Faculty / Assistant Professor, CUNY (2011–Present)

TECHNICAL & DOMAIN FLUENCY

Healthcare and life-sciences workflows; scientific evidence and validation; REST APIs, MCP, SQL/Postgres, Python and JavaScript concepts; Cloudflare, Supabase, OpenAI and Gemini integrations; authentication/access-control concepts; structured evaluation, incident review, data provenance, technical workshops, executive communication.

EDUCATION & CREDENTIALS

PhD, Chemistry, New York University, 2017 | 2× NIH Kirschstein NRSA Fellow, NYU Langone Health | Honors BA, Chemistry & Biology with CIS, CUNY, 2011 | Health Innovations & Therapeutics Program and Project Management training, NYU Grossman School of Medicine

Selected technical publications: Clarity API & Data Dictionary, DOI 10.5281/zenodo.19423468; Offline Dual-VLM Tire Extraction, DOI 10.5281/zenodo.19515682. **Recognition:** Eugene M. Farber Award; Henry M. MacCracken Fellowship.