Jason Andrew Hyde

AI Evaluation | AI-Assisted Product Development | Applied Biology

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SUMMARY

Applied biologist and AI evaluator with more than 25 years in living-systems research, production and business. Red-teams and evaluates models professionally, and founded STOMEL, an AI-powered biological field instrument now in external testing, directing AI coding tools to turn scientific judgment into working software.

SKILLS

AI Evaluation: Red teaming, Adversarial prompting, Evaluation design, Blind model comparison, Hallucination and faithfulness analysis, Regression testing, Annotation and preference ranking

AI Product and Orchestration: AI-assisted development, Multi-model orchestration, Prompt versioning, Long-term memory and retrieval design, Cost and failure monitoring

Biology and R&D: Agriculture and cultivation protocols, Aquaculture, Alternative proteins, Formulation and sourcing, Experimental protocols, Process scale-up

Product and Leadership: Product requirements, Commercial launch, Supply-chain systems, Business founding, Team leadership

EXPERIENCE

Founder and Product Developer, STOMEL / TerraSTOMEL Venture | Remote | April 2026 – Present

Built the field instrument I wished I'd had: an iPhone app that uses AI to read living systems alongside the person tending them, remembers what actually happened, and tells the truth about it. Reached TestFlight build 38 with invited testers and a live server within five months of first commit, and development is ongoing.

- Set the north star: success is what a person begins to notice for themselves, not what the app knows. Tooled for botany; built to reason about any living system.
- Directed frontier models (Claude, GPT, Grok, GLM, Kimi, Muse, Fable) as orchestrators of build and audit work across about 100,000 lines of code, checking their reviews against evidence, under written rules for protected assets and resumable handoffs.
- Built Founder Lab, an evaluation console with a production-matched conversation harness and 67 benchmark experiments, paired with 199 regression suites (about 95% passing).
- Ran controlled experiments that changed direction: drift across six models and multiple prompts showed a better prompt alone wasn't the fix.
- Stopped the model citing its own past statements as proof of events (0 of 5 to 5 of 5 in repeated trials, shipped), and narrowed its denial of found records to evidence placement (0 of 3 to 3 of 3 in an early blind lab test).
- Traced a vision failure to discarded reasoning tokens; a 3-photo bench of replacements moved accuracy from 0% to 100%, latency from 6.8 to 1.8 seconds, and cost about 14-fold lower.
- Rejected five candidate recall fixes after testing, and turned a memory-loss outage into standing change-control rules.

AI Trainer and Domain Expert, Handshake AI | Remote | January 2026 – Present

- Evaluate and rank model responses for accuracy and reasoning; write rationales for errors and unsupported claims; develop prompts to examine model capabilities.

Biology Expert and AI Model Evaluator, Outlier AI | Remote | October 2024 – February 2026

- Completed hundreds of red-teaming tasks with a high approval rate; assessed agriculture, biology and STEM content for accuracy and reasoning.

R&D Lead, Product Development, Carolina Natural Solutions | Troutman, NC | July 2025 – October 2025

- Led nutraceutical development through launch; cut raw-material costs 80% through formulation and sourcing changes.

Founder and R&D Director, Natural Nomad Farms, LLC | Lake Worth, FL | May 2015 – May 2025

- Founded and ran an edible-flower business for 10 years, developing cultivation protocols and supply chains that served premium hospitality clients nationwide.

Research and Site Manager, Alternative Proteins, Organic Nutrition Industries | Boynton Beach, FL | June 2011 – May 2015

- Led research and scale-up of black soldier fly, yeast and cyanobacteria for animal nutrition, directing mixed teams.

Earlier (1998–2011): Owner and Aquaculture Researcher, Full Circle Aquatics; Broodstock and Hatchery Manager, Dyer Aqua, LLC; Life Support Systems Technician, Walt Disney World.

EDUCATION

Bachelor of Science in Marine Science, Long Island University, Southampton, NY