

BENJAMIN FROHMAN

Lewisville / Frisco, Texas · Remote-ready · Founder, A2Zweb 3

Research systems · Geometric methods · Formal verification · Frontier consulting

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SUMMARY

Independent researcher and founder of A2Zweb 3 (est. 2 February 2022), delivering consulting and research in AI, digital assets, and infrastructure with a focus on mathematical application at frontier pace. Designs complete, engineerable systems: geometric analysis, Lean 4 formalization that compiles to hand-legible proofs, and operational artifacts that downstream teams can execute without keeping the author in the critical path. Available for remote research-staff, advisor, and project-lead roles.

PROFESSIONAL EXPERIENCE & OWNERSHIP

Founder — A2Zweb 3

Consulting and research studio · 2 February 2022 – Present

- Own the studio's research and consulting practice: AI systems, digital-asset infrastructure, and novel mathematical methods applied under real resource and time constraints.
- Produce stakeholder-ready instruments — schemas, phased roadmaps, acceptance criteria, risk registers — that engineering and research teams can execute independently.
- Hold high accountability for both conceptual depth and operational constraints (compute overhead, multi-tenancy, phased adoption, security posture).

Independent Research Lead

Self-directed geometric and formal program · 2024 – Present

- Frohmanian Symplectohydrodynamics (FSymHD): symplectic tether, metriplectic control, and holographic duals for 3D Navier–Stokes regularity and fusion-plasma architecture.
- Lean 4 formalization and proof-verification pipelines: machine-checked arguments compiled into explicit and high-level handwritten proofs; work on frontier open problems in geometric analysis.
- Research on preserving Boolean / discrete logical structure inside numerical integrators and continuous functionals, with application to plasma MHD and FSymHD tethered dynamics.
- HLEX Coordination Fabric — five-layer geometry-aware multi-model infrastructure (proposal available on request).

Progressive Insurance

Technical and operational roles · Ongoing

- Sustained professional delivery and accountability in parallel with independent research and the A2Zweb 3 practice.

SELECTED SYSTEMS (DISCREET / PRODUCT)

SealGuard

Integrity architecture · in development

- Containment and integrity layer for agentic and infrastructure surfaces. Threat model, scope, and internals available under NDA — not disclosed here.

Overemployed-Job Bot

Private multi-tenant SaaS · AI job-hunting pipelines · 2026

- Designed and built a private commercial SaaS: tenant-scoped data, AI scanning/application pipelines, 24-hour trial, lifetime unlock. Source remains private; product, not an open giveaway.

Modular robotic excitation arms

Mechanical design studies drafted with Grok

- Modular rotating ball-joint arms driving rolling excitation disks — a kinematic architecture for distributed mechanical excitation. Design studies; hardware roadmap on request.

EDUCATION

University of Texas at Dallas

Undergraduate study completed 2022 · three years, 2018–2022 · business, economics, and finance

St. Edward's University — Austin, Texas

One year of concurrent undergraduate study during the UT Dallas period

Prior focus in pre-medical study. Student-Research Intern, UT Southwestern Medical Center (Dallas), 2012–2013: hands-on clinical research in neuro-ophthalmology, conducting patient testing for ocular/motor studies in multiple sclerosis under a world-class clinician-scientist team. That work produced two peer-reviewed publications (table below).

PRIOR PEER-REVIEWED PUBLICATIONS (NEURO-OPHTHALMOLOGY)

Not FSymHD. Listed as provenance of prior clinical research resolve. Full links also live on the observatory prior-research tab.

Year	Venue	Work
2017	JAMA Neurology 74(5):574–582	Meltzer et al., including Benjamin S. Frohman . <i>Retinal architecture and melanopsin-mediated pupillary response characteristics: a putative pathophysiologic signature for the retino-hypothalamic tract in multiple sclerosis</i> . DOI: 10.1001/jamaneurol.2016.5131
2018	J. Neurol. Sci. 387:60–69	Sobhanian et al. <i>Identification and treatment of the visual processing asymmetry in MS patients with optic neuritis: The Pulfrich phenomenon</i> . DOI: 10.1016/j.jns.2018.01.029 · PMID: 29571874

ORCID record (featured works): <https://orcid.org/0009-0006-7068-3718>

Full technical proposals (HLEX v1.1, FSymHD instruments, SealGuard NDA brief) available on request.