

# **Anthony James Padavano**

SYSTEMS ARTIST & INTERDISCIPLINARY PRACTICE

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## LINKS

[Portfolio](#) · [Omni-Dromenon Engine](#) · [ORGANVM System](#) · [GitHub](#)

## PROFILE

Systems artist working at the intersection of computation, performance technology, and public discourse. Creator of the ORGANVM project — 103 repositories across 8 GitHub organizations with automated governance, treating infrastructure itself as creative medium. Creator of the Omni-Dromenon Engine, a real-time audience-participatory performance system spanning ballet, theatre, opera, electronic music, and installation. 42 published essays (~142K words) documenting creative practice with pedagogical transparency. 18 years professional experience. MFA Creative Writing, 11 years college instruction, 2,000+ students. LGBTQ+.

## TECHNICAL SKILLS

SuperCollider · Max/MSP · OSC · WebAudio · p5.js · WebGL · D3.js · TypeScript · React 18 · Node.js · Express · Socket.io · WebSocket · Python · Zod · Vitest · Docker · Redis · Astro · Vite · pnpm Monorepos · CI/CD · GitHub Actions · Git

## SELECTED PROJECTS

### **Omni-Dromenon Engine — Audience-Participatory Performance System**

TypeScript pnpm monorepo: Express/Socket.io core with three-axis weighted consensus (spatial, temporal, cluster), React 18 performer/audience interfaces, OSC bridge to SuperCollider/Max/MSP, WebAudio synthesis. Four working examples spanning generative music, visual art, choreographic interface, and theatre dialogue. Five genre presets. Performer override (absolute/blend/lock). 1,000+ concurrent participants, <2ms P95 latency. Festival rider, venue playbooks, collaboration agreements. Open-source MIT.

### **ORGANVM Eight-Organ Creative-Institutional System**

103 repositories across 8 GitHub organizations — a single creative work operating as institutional infrastructure. Automated dependency governance, promotion state machine, 82+ CI/CD pipelines, 2,349+ tests. 42 published essays (~142K words) making the creative process publicly visible. Single-practitioner system using AI as compositional instrument.

### **Portfolio & Generative Art**

Astro 5 site with real-time generative p5.js visual layer, D3.js data visualizations, Pagefind search, CMYK design system. 20 case studies bridging technical and artistic documentation.

### **Application Pipeline — Structured Creative Production Tools**

Python CLI tooling: 8-dimension scoring rubric, campaign orchestrator, YAML state machine, batch processing, conversion analytics. Infrastructure treating creative-administrative labor as a systems design problem.

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## EXPERIENCE

### **Independent Systems Artist & Creative Technologist**

2020 — Present

- **Omni-Dromenon Engine:** Designed and built audience-participatory performance infrastructure spanning multiple disciplines — consensus algorithms, React interfaces, audio synthesis bridge, genre-specific examples for ballet, theatre, opera, electronic music, and installation.
- **Eight-Organ System:** Architected 103-repository creative system across 8 GitHub organizations with automated governance, cross-organization coordination, and public documentation practice (42 essays, ~142K words) — infrastructure as artistic medium.
- **Public Writing:** 42 published essays documenting creative infrastructure with pedagogical transparency — making artistic and technical decision-making processes visible to broad audiences.
- **AI-Augmented Methodology:** Production workflow using AI as compositional instrument for code generation, architectural iteration, and editorial refinement — analogous to conducting, where creative intelligence is structural.

### **Instructor — Composition & Writing**

2015 — Present

*Miami Dade College, Keiser University, Nova Southeastern, FAU, Young Harris, Tarrant County, Broward, Palm Beach State*

- 100+ graduate and undergraduate courses across 8 institutions; 2,000+ students.
- 85% above-average achievement; 92% approval rating; 97% completion rate.

### **Multimedia Specialist**

2011 — 2020

*AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca*

- Video, audio, and visual campaigns for nonprofits and arts organizations; 17.5M+ views, \$2M in fundraising.

### **Digital Marketing Manager**

2023 — 2024

*Miami Dade College Foundation (nonprofit)*

- Rebuilt foundation website; designed fundraising campaigns increasing donor engagement by 32%.

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## EDUCATION

### **M.F.A. Creative Writing**, Florida Atlantic University

2015 — 2018

### **B.A. English Literature**, CUNY College of Staten Island

2010 — 2014

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## CERTIFICATIONS

Full-Stack Developer, Meta (2024) · UX Design, Google (2023) · Digital Marketing, Google (2023) · Project Management, Google (2023)