

AI & Innovation in Emergency Medicine Fellowship

DIVISION OF ARTIFICIAL INTELLIGENCE & INNOVATION

Build it. Evaluate it. Govern it. Scale it. | Non-ACGME | 1- or 2-year tracks

ENROLLING CLASS: JULY 1, 2027

1-2 fellows/year | EM residency graduates | 0.4 clinical FTE at BUH facilities

WHY BROWN / WHY EMERGENCY MEDICINE

A clinically embedded AI fellowship built in Emergency Medicine - a high-variability, throughput-sensitive, data-rich setting where AI can have immediate clinical and operational impact.

- Enterprise AI access: Brown University Health AI leadership, digital/informatics, analytics, quality/safety, operations, and the AI Center of Excellence.
- Brown ecosystem: Center for Biomedical Informatics, Center for Digital Health, Data Science Institute, Nelson Center for Entrepreneurship, and university collaborators.
- Translation infrastructure: data access, research design, governance, privacy/security, implementation, evaluation, and system-wide scale.

LEADERSHIP & KEY FACULTY

Anthony Napoli, MD, FACEP, MHL

Co-Director; Executive Vice Chair, Emergency Medicine

Adam Landman, MD

Co-Director; Chief Digital Information Officer, Brown University Health

Jared Anderson, MD

Director, Quality and Patient Safety and Informatics

Matthew Butler, MBA

Director of Artificial Intelligence, Brown University Health

Linda Brown, MD, MSCE

Chair, Department of Emergency Medicine

Richard G. Gillerman, MD, PhD

Vice President & Chief Medical Information Officer

CHOOSE YOUR TRACK

1-YEAR | CERTIFICATE

12 months. Shared didactic core, applied deployment, governance, agent building, and scholarship. Credential: funded applied AI/data science certificate pathway.

2-YEAR | MASTER'S+ LEADERSHIP

24 months. Year 1 mirrors the core. Year 2 adds deeper clinical AI, entrepreneurship, division innovation/administration, capstone work, and a named divisional leadership role. Degree pathway: Brown Online Sc.M. in Data Science: Policy, Governance & Society.

Tuition support is provided for the certificate or master's degree pathway.

Both tracks: 0.4 clinical FTE at BUH facilities + 0.6 fellowship effort.

WHAT FELLOWS GET TO DO

- Build and evaluate AI/LLM/agentic work/lows with front-line clinicians and technical teams.
- Work across Epic/informatics, enterprise data & analytics, AI governance, quality/safety, and clinical operations.
- Move a real project from scoping to prototype, pilot, evaluation, governance, and scale recommendation.
- Develop agentic workflows using enterprise tools including Microsoft Copilot Studio and Azure AI.
- Pursue operational AI, documentation/ambient AI, clinical decision support, equity/SDOH, and implementation science projects.
- Explore entrepreneurship, intellectual property, commercialization, and venture pathways.
- Graduate with a manuscript-ready product, national abstract, AI-enabled operational pilot, and serve as peer faculty.

CORE DIDACTICS

EHR & data quality | Python/R/SQL | AI/ML validation | CDS & human factors | operations analytics | responsible AI & governance | implementation/ROI | agent building | innovation/IP

YEAR 1 BLOCK EXPERIENCE

Clinical practice, didactics, and project work run throughout

1-2	3-4	5-6	7-8	9-10	11	12
FOUNDATIONS ABAIM immersion Bootcamp + scoping	INFORMATICS Epic/ CDS SQL/OMOP	BUILD+ VALIDATE Model / agent Applied ML	GOVERN + DEPLOY Ethics / safety Agent development	ELECTIVE + OPS ED / imaging AI Pilot a tool	INNOVATION MeSH CORE Nelson Center	CAPSTONE Manuscript Presentation

+ -4 weeks protected vacation distributed across the year

YEAR 2 - ADVANCED EXPERIENCE+ DIVISION LEADERSHIP

6 MONTHS	6 MONTHS
CLINICAL AI + ENTREPRENEURSHIP	DIVISION INNOVATION & ADMINISTRATION/ CAPSTONE

FULL YEAR: DIVISION LEADERSHIP ROLE - ASSOCIATE DIRECTOR, CENTER OF EXCELLENCE IN AI OR DIVISION OF AI & INNOVATION

HOW TO APPLY

Eligibility: EM residency graduates | Start: July 1, 2027 | Cohort: 1-2 fellows/year

Cover letter+ 3 letters of recommendation (1 from Program Director) | Contact: Anthony Napoli, MD - anapoli@brownhealth.org