



ATHAN DIAL

DECISION SCIENCE & DATA PRODUCT LEADER

CONTACT

- 857-654-4798
- athandial@gmail.com
- www.linkedin.com/in/athandial
- Boston, MA, USA

LEADERSHIP

- Mentored and coached 2 Data Scientists and 1 Analytics Developer**, building team capability in analytics engineering and visualization.
- Partnered cross-functionally** with biology, chemistry, ML, and platform teams, ensuring analytics aligned with scientific and business priorities.
- Managed data vendor relationships and assessment processes**, directly enabling the allocation of the nominations budget.
- Recognized by Montai leadership** for establishing analytics frameworks as the default path for nomination decisions.

SKILLS & TOOLS

STRATEGY & DELIVERY

- Drive analytics strategy, align portfolios with business goals
- Lead cross-functional teams and Agile delivery using Atlassian Suite

ARCHITECTURE

- Design and implement dbt, SQL/Athena, and S3/Parquet pipelines
- Establish data contracts, lineage, and scalable warehouse architectures

ANALYTICS & VISUALIZATION

- Build decision tools with R/Python, Shiny, Plotly, ggplot2, ECharts
- Develop statistical graphics and trade-off analyses for executives

COMMUNICATION

- Deliver executive storytelling through briefs, dashboards, and Quarto hubs
- Capture institutional knowledge into durable, actionable findings

EDUCATION

PhD

McMaster University

2017-2022

- Developed multi-omics pipelines translating complex biology into actionable decision contexts.

PROFILE

Decision science and data product leader translating complexity into clarity. I build decision frameworks, scalable data products, and executive-ready analytics that cut cycle time, reduce uncertainty, and align strategy with impact. Known for integrating science, engineering, and business priorities into platforms that accelerate discovery and enable confident, high-stakes decisions.

HIGHLIGHTS

- Spearheaded** PEAK, Montai's institutional knowledge capture system, distilling reports into actionable findings and durable facts adopted across **6+ discovery teams**.
- Automated** Montai's nomination process from zero to **10k+ compounds sourced in half a day**, cutting cycle time by **~90%**.
- Established** visualization and communication frameworks adopted by executives as the **default basis for multimillion-dollar R&D trade-offs**.

WORK EXPERIENCE

Data Research Lead

2022-Present

Montai Therapeutics

- Scaled** decision-support apps cutting cycle time by **~90%** and standardizing trade-offs across **6+ discovery teams**.
- Designed** a dbt/S3 warehouse reducing compute cost by **~\$75k/yr** and shortening analytics turnaround by **~75%**.
- Built** exec-ready dashboards used in **~3 portfolio reviews/quarter**, guiding **\$10m+ R&D investment decisions**.
- Integrated** predictive modeling into early-stage gates, improving progression precision by **~20%** and reducing false positives by **~15%**.
- Partnered** with executives and scientists to align analytics with business OKRs, making these platforms the **default path for all nomination decisions**.

Data Scientist

Replica Analytics

2019-2020

- Built** R/Python pipelines to clean and validate clinical datasets, ensuring reliability for research.
- Applied** ML models to patient data, generating insights that supported clinical trial evidence.
- Contributed** to privacy-preserving synthetic data innovation, enabling secure healthcare data sharing.

Chief Analytics Officer

2018-2019

ArchitecHealth

- Directed** analytics strategy for small-to-medium biotech firms, informing portfolio and research decisions.
- Oversaw** delivery of analytics projects that produced actionable insights and improved client competitiveness.