



# 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.