

HD

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SUMMARY

Digital health product leader with 10+ years spanning clinical research, healthcare data analytics, research operations, and product/platform leadership. Owns strategic roadmap and full-lifecycle delivery for Beiwe, a smartphone-based passive-sensing platform (iOS/Android/backend) serving up to 7,000 active participants annually and 100+ institutional collaborators, coordinating directly with mobile, backend, and infrastructure engineers to ship features inside real privacy and trust constraints. Directs data governance, vendor/contract relationships, and partnership operations for the platform's research service center, and partners daily with data scientists and engineers on production signal-processing systems. Brings a clinical/neuroscience foundation, 30+ peer-reviewed publications, hands-on data fluency (Python/SQL/Tableau), and hands-on use of AI-assisted development tools (Claude Code) to build internal product and research-operations tooling.

CORE COMPETENCIES

- **Digital Health Product Leadership:** Owns strategic roadmap and full-lifecycle delivery for a smartphone-based sensing platform (iOS/Android/backend) reaching up to 7,000 active participants annually and 100+ institutional collaborators; repeated track record of taking 0-to-1 initiatives from problem identification through shipped, measured product (HeartBeat feature, Phebe Health co-founding, Health+ MVP).
- **Data-Completeness & Platform Reliability:** Directed the build of "HeartBeat," a device check-in and re-engagement feature that lifted platform-wide data-collection completion by 7-8 percentage points ($p < 0.001$), contributing to a tenure-long rise of +10.3 percentage points (83.24% to 93.57%) since 2022 and setting the platform's all-time completeness record.
- **Health Data Governance & Regulated-Use Compliance:** Directs IRB consultation, data-sharing agreements, and privacy oversight across the platform's studies, distinguishing wellness-tier from regulated-use data handling, including a pharma-sponsored engagement with Boehringer-Ingelheim that produced a secondary clinical-trial endpoint.
- **Partnerships, Vendor & Contract Management:** Owns pricing, costing models, and data-use-agreement/MOU negotiation for a research service center's portfolio of 70-80 contracted academic medical centers, research institutions, and industry partners (roughly 50 personally managed); reports performance to institutional finance and oversight committees.
- **Cross-Functional & Technical Delivery:** Direct people manager for the platform's engineer and a 4-person research-assistant team (5 direct reports: priorities, performance reviews, HR); active participant in architecture and technical tradeoff decisions on production systems, including a machine-learning model (Sparse Online Gaussian Process GPS imputation) and processing-efficiency-vs-accuracy calls.
- **AI-Enabled Product & Operations Tooling:** Builds and ships internal AI-assisted tools, including a Python pipeline against Beiwe's developer API powering platform usage diagnostics (4M+ records across 128 studies), a custom GPT for structured career-fit scoring, and a Python/Claude grant-discovery tool; applies the same AI-assisted approach (via Claude Code) to product research and requirements drafting. Google AI Professional Certificate (2026).

PROFESSIONAL EXPERIENCE

Harvard T.H. Chan School of Public Health

Senior Research Operations Manager, Head of Beiwe Research Platform

Boston, MA

2022–Present

- Owns product strategy and full-lifecycle delivery for Beiwe, a smartphone-based passive-sensing platform (iOS/Android/backend) supporting 10-20 active studies at any time (118 run total) and roughly 3,000 active participants per year (peak 7,000), navigating hardware, mobile, and backend constraints as one coherent product
- Directed the build of "HeartBeat," a device check-in and re-engagement feature that lifted platform-wide data-collection completion by 7-8 percentage points ($p < 0.001$), contributing to a tenure-long rise of +10.3 percentage points since arrival and setting the platform's all-time completeness record (94.47%)
- Partners with data scientists and engineers on production signal-processing systems, including a machine-learning model (Sparse Online Gaussian Process GPS imputation) and the Forest analysis library's circadian-rhythm metrics, making tradeoff calls on processing time vs. measurement accuracy that ship responsibly into a live system
- Owns full budget, vendor, and contract lifecycle for the Beiwe Service Center: pricing models, data-use-agreement and MOU negotiation, and revenue projections across roughly 50 personally-managed studies (70-80 distinct institutions contracted); reports performance monthly at Center finance meetings and annually to Harvard's Research Program Advisory Committee
- Directs data governance across wellness and regulated-use contexts: IRB consultation, data-sharing agreements, and privacy oversight, including a pharma-sponsored engagement with Boehringer-Ingelheim that produced a secondary clinical-trial

endpoint

- Direct people manager for the platform's engineer and a team of 4 Research Assistants (5 direct reports): full ownership of priorities, performance reviews, and HR conversations; active participant in architecture and technical tradeoff decisions

Health+ (MIT delta V Accelerator)

Cambridge, MA

Head of Product

2024

- Led product strategy and MVP development for a burnout-prevention platform using internal HR data and passive sensing, part-time alongside the Beiwe role
- Conducted user research and structured customer discovery, bridging the academic-research and startup-commercialization worlds

Phebe Health

Boston, MA

Co-Founder & Head of Product

2020–2023

- Led product strategy and roadmap for a digital phenotyping startup in an ambiguous, resource-constrained 0-to-1 environment
- Built investor pitch materials and a phased funding waterfall with the CEO; managed technical implementation of the Phebe Beiwe instance

Brigham and Women's Hospital

Boston, MA

Data Analytics and Reporting Manager

2021–2022

- Delivered analytics and reporting to clinical, financial, and research stakeholders across Mass General Brigham, translating raw operational data into decisions leadership could act on
- Built end-to-end data pipelines and ETL flows; developed data warehouses combining clinical and billing data using SQL, Python, R, and Tableau

Brigham and Women's Hospital

Boston, MA

Skull Base Center Coordinator, Department of Neurosurgery

2019–2021

- Oversaw clinical and research operations for a 5-surgeon Skull Base surgical service
- Developed and executed the project timeline, vendor logistics, budget, and marketing plan for the Cerebrovascular/Skull Base Surgery Annual Symposium (50+ national/international lecturers)
- Wrote industry-sponsored educational grant requests at a 75% success rate

Computational Neuroscience Outcomes Center (CNOC), Brigham and Women's Hospital

Boston, MA

Founder, Research Fellow & Administrative Director

2016–2022

- Co-founded and oversaw all operations of a neurosurgery research group; wrote and managed IRBs, grants, and data-sharing agreements
- Led digital phenotyping studies in neurosurgical patients, including two using the Beiwe platform directly, and co-authored 20 peer-reviewed papers (2016–2025)

EDUCATION

The College of William and Mary

Williamsburg, VA

BS in Neuroscience (Major), Economics (Minor)

2006–2010

Additional coursework:

- Google AI Professional Certificate (7 courses) — Google, 2026
- Artificial Intelligence Micro-Certification — Product School, 2025
- Managing Research Data Masterclass — Springer Nature, 2025
- Using Python for Research — Harvard, edX, 2019

PUBLICATIONS

- *Forest: A data analysis library for raw high-throughput digital phenotyping data* — co-author, in revision at the Journal of Open Source Software (managed code development, release/packaging, and manuscript preparation)
- *A Digital Phenotypic Assessment in Neuro-Oncology (DANO): A Pilot Study on Sociability Changes in Patients Undergoing Treatment for Brain Malignancies* — Cancers, 2025 (digital phenotyping)
- *Assessing Mobility in Patients With Glioblastoma Using Digital Phenotyping* — Neurosurgery, 2025
- *Urinary excretion of C5b-9 in severe preeclampsia: tipping the balance of complement activation in pregnancy* — Hypertension, 2013 (women's health)
- 30+ peer-reviewed publications total spanning digital phenotyping, neurosurgical outcomes, and women's health research (10+ in women's health). Full list available on request.

ADDITIONAL

- Languages: English (native), French (elementary).
- Eagle Scout (2006).