




STACEY BRANDSMA

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digital product senior manager ~ amgen
msc computer science, msc analytics, bsc biology

Digital health and technology innovation leader with over a decade of experience designing and deploying AI-enabled solutions across the healthcare industry. I lead the strategy and product development at Amgen to improve pharmacovigilance and patient safety through scalable digital health tools, intelligent platforms, and cross-functional partnerships.

I am deeply driven by the transformative potential of digital health and its applications in modern medicine. My passion lies in shaping patient support and care by harnessing digital technologies, from AI-powered decision support systems to intelligent safety platforms. I believe innovation in digital medicine is key to making clinical research more accessible, efficient, and patient-centric.

Skills

Digital Leadership:	Innovation Strategy, AI Product Development, Cross-Functional Collaboration, Change Management, Stakeholder Engagement, Vendor Management, Portfolio Alignment
Product Development:	Platform Design, Roadmapping, OKRs, MVP Delivery, Agile Product Lifecycle, User Research, Go-to-Market Planning
Technical Expertise:	Machine Learning, Natural Language Processing, Bayesian Statistics, Deep Learning, Big Data Analytics, Simulation, Causal Inference, RWD Integration
Domains:	Digital Health, Patient Safety, Precision Medicine, Clinical Research, Public Health Informatics, BioPharma R&D

Education

- 05/2024 **Master of Science in Computer Science, Georgia Tech, GPA: 4.0**
 - Artificial Intelligence, Deep Learning, Big Data for Healthcare, AI Ethics, Bayesian Statistics, Knowledge Based AI, Software Development Process, Human Computer Interaction, Machine Learning and Data Science Tools
 - Independent Study: Predictive Modelling for Diabetes, Obesity, and Sleep Apnea
- 05/2020 **Master of Science in Analytics, Georgia Tech, GPA: 4.0**
 - Machine Learning, Simulation, Data and Visual Analytics, Business Data Analytics, Introduction to Modelling, Introduction to Computing, High Dimensional Data, Regression Analysis
- 01/2018 **Micro-Masters in Data, Economics, and Development Policy, MIT**
 - Data Analysis, Economics, Experimental Design, and Policy Analysis
- 04/2013 **Bachelor of Science (Honors) in Biology, Kings University**
 - Certificate in International Development Studies
 - Elected VP of Students' Association
 - Laurence Decore Student Leadership Award from Government of Alberta
 - Senior Thesis: Survival of murine norovirus and F-RNA coliphage MS2 on pork during storage and retail display published in International Journal of Food Microbiology

Experience

- 09/2024–present **Digital Product Senior Manager**, *Amgen*, ATMOS AI Innovation Lab
- Lead AI Product Manager for Global Patient Safety, aligning digital strategy with pharmacovigilance innovation.
 - Lead development of digital platforms to support regulatory safety documentation, risk assessment, and pharmacovigilance using AI and data science.
 - **AI-Powered Document Platform:** Lead teams developing intelligent modular systems using generative AI and document intelligence to streamline global safety report generation.
 - **Predictive Safety Intelligence:** Leading exploratory analysis of models integrating clinical, observational, and real-world data to forecast product-level safety risks and guide risk mitigation.
 - Collaborated with Clinical Development, Regulatory, and Safety to align platform functionality with global study and portfolio goals.
 - Advised on integration of remote and digital data sources (e.g., real-time monitoring, EHR, unstructured notes) to improve insight generation and safety signal detection.
- 07/2021–09/2024 **Principal Data Scientist**, *Amgen*, Digital Health & Innovation
- Strategic & Domain Leadership:
 - Co-led enterprise AI taskforces for Obesity, Rare Disease, and Safety; defined use cases and roadmap priorities.
 - Key contributor to Amgen's precision medicine strategy via executive workshops on future AI capabilities.
 - Product & Technical Execution:
 - Led discovery and MVP delivery for AI tools in safety signal evaluation, trial optimization, and document automation.
 - Built AI-driven executive tools using NLP for summarization, Q&A, topic modeling, sentiment analysis, and forecasting.
 - Developed ML models for osteoporosis detection and scaled deployment strategies.
 - Integrated computer vision pipeline for analyzing cell painting images.
 - Authored internal white paper on clinical AI adoption across therapeutic areas.
 - Collaboration & Culture Building:
 - Vice Chair for Amgen's Data Science Symposium; led AI Demo Days and Tech Talks to scale AI awareness.
 - Co-led AI Learning Lab to expand organizational AI literacy.
 - Led AI mentoring program; improved mentor matching with ML and supported junior team growth.
 - Promoted cross-functional collaboration through journal clubs, pilots, and innovation showcases.
- 03/2021–07/2021 **Data Scientist 2**, *Parsyl*
- 04/2020–03/2021 **Data Scientist**, *HCA Healthcare*
- 06/2018–04/2020 **Data Science Co-Op**, *Johnson & Johnson*
- 09/2014–10/2017 **Monitoring and Evaluation Officer**, *MCC*