

# Ian Schillebeeckx

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## EDUCATION

### Washington University in St. Louis

*PhD, Computer Science (Computer Vision) – Fastest graduation in department history*

St. Louis, MO

2012 – 2016

### Saint Louis University

*Honors BS, Computer Science*

St. Louis, MO

*Honors BS, Applied Mathematics*

2007 – 2011

## EXPERIENCE

### VP of Enterprise Data Science and AI

*CareDx, Inc.*

January 2025 – Present

San Francisco, CA

- Pitched and secured \$1M for RAG-based knowledge platform (Oracle) deployed company-wide; built agentic LLM for automated research manuscript generation (12 publications); built agentic LLM scoring product proposals against rubrics to inform 5-year roadmap
- Drove enterprise AI transformation to 92% Copilot adoption, saving 8% of total employee hours annually; authored and secured executive approval for company-wide AI Use Policy
- Directed development of predictive churn system covering \$270M in customer revenue; replaced reactive 6-month-lag detection with forward-looking model enabling proactive retention interventions
- Established company's first Data Science function outside R&D; became go-to analytical partner to CEO, CFO, and COO for business strategy across Commercial, Operations, Finance, and Billing
- Built forecasting capability from scratch (~75% of revenue), reducing error from 6% to 0.9%; deployed executive dashboard with automated revalidation integrated into quarterly/annual planning
- Drove 10% revenue increase through end-to-end analytics: experiment design, feature engineering, predictive modeling, causal inference, and pre-post controlled analysis

### VP of Data Science

*CareDx, Inc.*

January 2024 – January 2025

San Francisco, CA

- Led Data Science organization (14 people, \$6M budget) spanning multiple functional teams; reported to C-suite with Board of Directors participation; provided mentorship and career development
- Oversaw BI portfolio of ~20 Tableau dashboards spanning Customer Ops, Sales, Manufacturing, and Operations; delivered operational and strategic reporting to cross-functional leadership
- Directed development of LSTM-based sequential model to predict customer outcomes from longitudinal data (~1200 accounts, ~5000 interactions), outperforming traditional approaches; presented at international conference (top 10%)
- Directed development and validation of two production ML models (SVM, LASSO) deployed at scale

### Head of Product and Data Science

*Cofactor Genomics*

December 2017 – January 2024

San Francisco, CA

- Led end-to-end launch of 2 ML-based products; owned product strategy, ML development, validation, and go-to-market execution
- Defined multi-year roadmaps and company-wide OKRs; designed and monitored KPIs for ML model and product performance across the organization
- Architected scalable data infrastructure: ML model repository, training data platform (100s GBs), and AWS Batch pipeline (+200% throughput, -25% cost)
- Designed and executed prespecified A/B test (~500 users, 12+ cohorts) using CMH, Fisher Exact, and McNemar tests; achieved production deployment enabling commercial launch
- First author on Nature ML paper (2nd most downloaded in 2022) and 3 AI patents

## SELECTED PUBLICATIONS & PATENTS

**3 Artificial Intelligence Patents** – Methods for prediction, state determination, and data processing using AI

**ML-based Prediction Model** – *Nature Scientific Reports, 2022 (2nd most downloaded)*

**4 Computer Vision Publications** – *CVPR, ECCV, ICCP, 3DV (2014-2016)*

## TECHNICAL SKILLS

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**AI/ML:** LLM/RAG Applications, Agentic AI, Predictive Modeling (LSTM, SVM, Gradient Boosting), Causal Inference, Experimentation

**Platforms:** Databricks, Tableau, Streamlit, AWS (Batch, SageMaker), Docker

**Data Infrastructure:** ML Pipelines, Model Repositories, Training Data Platforms, SQL

**Languages:** Python, R, SQL

**Leadership:** Team Building, Mentorship, OKRs, Executive Communication, Cross-Functional Collaboration, Change Management