Dr. Josh Pohlkamp-Hartt

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Education

2009, 2010, 2016	BSc in Mathematics, MSc in Statistics, PhD in Statistics	Queen's University

Work Experience

2019 - Present   **Boston Bruins – Associate Director Of Hockey Analytics**

I develop models, metrics, and analyses to support decision-making within the hockey operations department. I am directly involved in decision-making, where I communicate our department's recommendations to team leadership. I write detailed and timely game reports for our coaching staff and management. Our department's data products support all areas of professional hockey: draft preparation, player development, signing/trades, in-game strategy, sports science, and contract negotiations. I assist other departments, gaining experience in scouting, scheduling, arbitration, off-ice training, and coaching. In addition to team-focused efforts, I develop processes and KPIs for improving our structure and decision-making within hockey operations. We are a small department of 5 so this role involves working closely with our data engineers, where I assist in making critical decisions on how we store and present data. I oversee our departmental interns, providing both project and people management. **I understand and am comfortable making educated decisions in all areas pertaining to hockey analytics.**

2015 - 2019   **Apple Inc. – Senior Statistician**

I led the analysis for projects that aimed to improve Apple's mapping services. My main responsibilities were to design and coordinate quality evaluation systems for business-critical projects including the launch of indoor mapping, autonomous vehicle routing and the globalization of Apple's transit routing. I led 20-50 member teams of varying expertise in this role and was directly responsible for decision recommendations to C-level executives.

2014 - 2015   **Kingston Frontenacs Hockey – Head of Analytics**

I designed and implemented an analytics program including developing a computer system for data collection, hiring staff, creating a statistics package to evaluate the data, modeling player performance, and reporting results clearly to coaches and management. As a contributing member of the academic hockey research community, I became well versed in the state-of-the-art methods used today including computer vision for data collection, player/prospect valuations and injury prevention.

Programming & Data Science Skills

Coding for Analysis	Expert R user with production quality code, Python coding for LLMs, APIs, model integration, prototyping. Production code includes container management (Docker), automated and interactive reporting using HTML, Excel integration and JSON.
Modeling	Daily use of industry standard and innovative methods including Clustering, Regression, Bayesian analysis, Gradient Boosting, Random Forests, Deep learning (Neural Nets, etc.), Large Language Models, Sentiment Analysis and Time-Series analysis.
Database Management	Working knowledge of industry standard practices from overseeing design of databases and ETL pipelines using AWS, NoSQL, Bitbucket, Airflow.
Web Development	Familiarity with best practices and technology from overseeing design and testing of web/mobile development, including REACT, ANGULAR, JAVA, Load Balancing, Security and Authorization.
Hiring	Designed and implemented hiring practices for 50+ roles for positions in Data Science, Engineering and Software Development. Comfortable as an interviewer and talent evaluator.
Communication	Executive Presentations/Emails, Internal Research Papers, and Leading Departmental Meetings.

Public Engagements

2025	Panelist, Nashua Sports Management Summit
2024	Invited Presenter, Northeastern University Pysport Club
2023 - 2024	Panelist, Linköping Hockey Analytics Conference
2023	Organizer/Panelist, Sports Section at Joint Statistical Meetings
2022	Panelist, Northeastern University DATA Forum
2021	Keynote Speaker, Midwest Sports Analytics Meetings
2021, 2025	Finalist Judge, Big Data Cup (OTTHAC/Stathletes)
2021	Playoff Contestant & Winner Best Visualization, #SLICED Data Science Competition
2014 - 2021	Member/Judge/Presenter, Various Sessions at Joint Statistical Meetings
2020	Judge, UConn Sports Analytics Conference
2016 - 2018	Member, SIGKDD Conference on Knowledge Discovery and Data Mining
2017	Keynote Speaker, Queen's Economic Speaker Summit
2016	Invited Presenter, Ottawa Hockey Analytics Conference