

Reza Shahsahebi

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SUMMARY

Data scientist with a PhD in Operations Management and experience in causal inference, behavioral experimentation, applied machine learning, and human-AI decision systems. Built multi-agent LLM and RAG applications and ran randomized experiments with 1,232 participants, turning technical findings into practical decision support.

TECHNICAL SKILLS

- **Statistics, ML & Causal Methods:** Python, SQL, scikit-learn, causal inference, A/B testing, experimental design, regression, cross-validation, feature engineering
- **OR & Decision Science:** optimization, simulation, forecasting, queuing, decision analysis, Bayesian belief updating, rational inattention, Gurobi
- **Agentic AI & LLMs:** OpenAI Agents SDK, CrewAI, LangChain, Pydantic, RAG, FAISS, BM25, reranking, LLM routing, RAG evaluation
- **Engineering & Infrastructure:** Git, Gradio, oTree, Prolific, Heroku, Railway, LaTeX, Excel, R

PROFESSIONAL EXPERIENCE

Instructor

Sep 2025 - Present

Haskayne School of Business, University of Calgary

- Teach Business Analytics, Predictive Analytics, and Logistics Management across three teaching terms: Fall 2023, Fall 2025, and Fall 2026.
- Taught 250+ undergraduates across 5 sections through Fall 2025; earned ratings of 5/5 and 7/7 and was runner-up for the 2025 Outstanding Achievement in Teaching Award.

Doctoral Researcher

Sep 2020 - Jun 2026

Haskayne School of Business, University of Calgary

- Designed and ran two randomized ML-fairness experiments with 1,232 participants; built the oTree and Heroku stack and analyzed outcomes with regression and Wald chi-square tests.
- Developed Bayesian and rational-inattention models of human-AI decisions, deriving conditions under which error-rate disclosure improves accuracy and demographic fairness.

PROJECTS

CrewAnalyst, Multi-Agent Data Analysis

github.com/mohamadre3a/crewAnalyst

- Built a 7-agent CrewAI pipeline with parallel execution and typed Pydantic contracts that converts CSV files into statistical analysis, charts, and PDF reports.

RagTeX, LaTeX-Aware RAG

github.com/mohamadre3a/ragtex

- Built section-aware retrieval over academic papers using FAISS, BM25, metadata filters, reranking, query routing, and structure-aware LaTeX parsing.

EDUCATION

PhD, Operations Management, University of Calgary

2020 - Jun 2026

MSc, Industrial Engineering, Sharif University of Technology

2018 - 2020

BSc, Industrial Engineering, Kharazmi University

2014 - 2018

AWARDS

Paramount Resources Ltd Graduate Scholarship in Business, University of Calgary, 2024 and 2025