

# Philipp Eisenhauer

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Redmond, WA

## Objective

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Building production systems that translate scientific models into decision frameworks for high-stakes problems under uncertainty. Combining statistical modeling, economic reasoning, and systems engineering end-to-end - from research to deployment - to deliver solutions that move organizations from analysis to action at scale.

## Experience

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**Amazon.com, Catalog Experimentation** Jul 2022 - Present

*Senior Economist* Seattle, WA

- **Impact API – Impact Measurement Toolkit:** Currently building a production-grade platform that exposes impact-measurement tooling and causal models through a unified API. Designed to embed standardized, experiment-backed evaluations directly into agentic workflows, turning model outputs into auditable decisions at scale.
- **Catalog AI – Causal Impact Framework:** Developed the causal impact measurement framework for Amazon's Catalog AI initiative, leveraging randomized experiments to quantify the business value of product data improvements. Built production pipelines that measure customer impact, guide model development, and drive seller adoption with experiment-backed insights. Published in *Harvard Business Review: Inside Amazon's AI Factory*.
- **Uncertain Decisions – Portfolio Allocation Framework:** Designed a standardized framework to evaluate the return on investment (ROI) of major tech initiatives by aligning assumptions across teams, validating inputs, and conducting sensitivity and scenario analyses. Established ongoing tracking processes that refine projections and feed ROI data back into investment decisions through iterative refinement. Published in *Science-backed Decisions for High Stakes Investments Under Uncertainty*.

**University of Washington** Feb 2025 - Present

*Affiliate Associate Professor* Seattle, WA

- **Business Decisions:** Teaches students to connect data insights to organizational action through systematic impact measurement and resource allocation. Covers causal inference for business, experimentation design, and building decision systems that scale. Course materials available [online](#).

**University of Bonn** Oct 2019 - Jun 2022

*Professor of Economics* Bonn, Germany

- **Robust Decisions:** Developed frameworks combining statistical decision theory, robust optimization, and econometrics to guide policy and investment decisions under uncertainty. Published in *Journal of Political Economy* and *International Economic Review*.
- **Scientific Computing:** Designed and taught graduate courses on causal data analysis and computational methods, emphasizing reproducible research and production-ready code. Course materials available [online](#).