Tim Draws

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Senior researcher and applied scientist with a background spanning psychology, statistics, and machine learning. PhD in Computer Science from TU Delft (cum laude). Researches and builds human-centric ML systems with a focus on demand forecasting, evaluation, and human-AI collaboration.

EXPERIENCE

Applied Scientist | Zalando Berlin — Oct 2026 – present

Researching and building state-of-the art demand forecasting models; including full ownership of Zalando's in-season demand forecast.

(Senior) Data Scientist | OTTO Hamburg — Sep 2023 – Sep 2026

Built demand and inbound forecasting models — statistical baselines, gradient boosting, deep learning (TiDE), and foundation models (Chronos) — generating daily forecasts up to 450 days ahead for 3M+ SKUs, feeding (semi-)automated stock replenishment. Created and maintained a forecasting evaluation framework and monitoring pipeline; used to benchmark models across use cases and drive targeted improvements. Conducted applied research on forecast evaluation and human oversight of automated AI decisions in production forecasting (paper under review).

SELECTED PUBLICATIONS

Responsible Opinion Formation on Debated Topics in Web Search. A. Rieger, T. Draws, N. Mattis, D. Maxwell, D. Elsweiler, U. Gadiraju, D. McKay, A. Bozzon, M. S. Pera. *ECIR 2024.*

Collect, Measure, Repeat: Reliability Factors for Responsible AI Data Collection. O. Inel, T. Draws, L. Aroyo. *HCOMP 2023 — Best Paper Honorable Mention.*

Disentangling Fairness Perceptions in Algorithmic Decision-Making: The Effects of Explanations, Human Oversight, and Contestability. M. Yurrita, T. Draws, A. Balayn, D. Murray-Rust, N. Tintarev, A. Bozzon. *CHI 2023 — Best Paper Award.*

Comprehensive Viewpoint Representations for a Deeper Understanding of User Interactions With Debated Topics. T. Draws, O. Inel, N. Tintarev, C. Baden, B. Timmermans. *CHIIR 2022 — Best Paper Award.*

A Checklist to Combat Cognitive Biases in Crowdsourcing. T. Draws, A. Rieger, O. Inel, U. Gadiraju, N. Tintarev. *HCOMP 2021 — Best Paper Award.*

This Is Not What We Ordered: Exploring Why Biased Search Result Rankings Affect User Attitudes on Debated Topics. T. Draws, N. Tintarev, U. Gadiraju, A. Bozzon, B. Timmermans. *SIGIR 2021.*

EDUCATION

PhD Computer Science | Delft University of Technology — 2019 – 2023

Graduated *cum laude*, among the top 5% PhDs in the Netherlands. Co-authored 27 published research papers (10 as first author), collecting four Best Paper Awards and one Honorable Mention across top-tier venues such as CHI, HCOMP, CHIIR, and Hypertext, and accumulating 3000+ citations (h-index = 18, i10-index = 23). Did two research internships with IBM in Amsterdam and Yorktown Heights (NY, US). Dissertation: Understanding Viewpoint Biases in Web Search Results.

BSc & MSc, Psychology | University of Amsterdam — 2015 – 2019

Graduated *cum laude*. Tracks: Psychological Research Methods and Behavioral Data Science.

PROJECTS

Statistical Test Finder A flowchart for finding the right statistical hypothesis test.

SKILLS & INTERESTS

ML/AI supervised & unsupervised machine learning, deep learning, Bayesian methods, time series forecasting, foundation models, LLMs, explainable ML

Behavioral Science & Measurement experimental design, psychometrics, causal inference, A/B testing, evaluation metric design, human evaluation, crowdsourcing & annotation quality

Engineering Python, PyTorch, SQL, R, AI-assisted coding, Dagster, MLflow, Git, dbt

Languages German (native), English (C2), Dutch (C1), French (A1)

Personal Interests family, my dog Sepp, basketball, vinyl records, cooking