

Gabriel Bénédict

gabriben.github.io	
 Contact gbndict@gmail.com +34 673 069 244 +41 79 411 92 06	Research Interests
	A mix of theoretical and applied AI research. The main themes are optimization for neural networks (surrogate metrics as losses), (normative) diversity metrics for news recommendation, intent-satisfaction modelling, video-to-music AI and now diffusion. [Google Scholar 
	Experience
Date of birth 31.10.1993	Dec. 23. – Present Amazon MADRID, ES <i>Machine Learning Scientist, GenAI</i> Research and applied work on Generative AI for Amazon devices. Audio-books and Apps recommendations in production. Prototyping conversational and image-based recommendation.
Nationalities Swiss, French, Brazilian	Oct. 20 - Nov.23 RTL NL AMSTERDAM, NL <i>Artificial Intelligence Researcher</i> (i) Started and co-lead MusicFlow: a webapp for AI music recommendations for videos (music similarity, music labelling, video-to-music tasks). Hired 6 FTEs. (ii) Implementation @Videoland (SVOD) and @RTL–Nieuws: still-picking, survey design and diversity in news recommendation metrics (iii) We started Data-Academy – data-driven decisions across RTL.
Languages <i>Native</i> in French <i>Fluent</i> in English, German, Portuguese & Swiss German <i>Good knowledge</i> of Dutch, Hebrew	Oct. 19 - Oct.20 Bertelsmann HAMBURG, GE / AMSTERDAM, NL / LYON, FR <i>Data Scientist at Gruner & Jahr and Bedrock</i> (i) Personalisation roadmap. (ii) News articles quality survey and scoring in production. (iii) Causal Inference with Bayesian structural time series models to assess impact of recommendation system.
Workshop co-organization Generative Information Retrieval @SIGIR 23 Generative Information Retrieval @SIGIR 24	Aug. – Sep. 19 Cambridge University CAMBRIDGE, UK <i>Deep Learning Researcher</i> Self-supervised learning with autoencoders for genomics on UK BioBank
Reviewing NeurIPS 23, AABI 23, AISTATS 21 & 22, MLRC 22	Jul. – Sep. 18 Cytel BARCELONA, ES <i>Statistician</i> Research and R-package development for adaptive non-parametric survival clinical trials
Awards Best Paper Runner up @Recsys22, MVP 22 @IRLab	14 – 18 Internships and Short Term Research <i>Master Thesis Statistical Assistant at KUL</i> LEUVEN, BE Structural Equation Modelling to model fear of terrorism <i>Category Management Intern at Danone</i> ZURICH, CH <i>Research Assistant at Institute of Political Science</i> ST GALLEN, CH <i>Controlling and Finance Intern at Aeris Capital</i> ZURICH, CH <i>Internal Audit at Adecco Group</i> ZURICH, CH <i>Risk Management at Spinnaker Capital</i> SAO PAULO, BR
Talks GenIR @ZetaAlpha [recording] GenIR & RecFusion @Naver/AMLab/ ADS/FoMo	Education
Sports Ski-touring, bouldering, tennis, rugby	Oct. 20 - Nov.23 University of Amsterdam AMSTERDAM, NL <i>PhD candidate in AI for personalization</i>
Extracurricular Robust Statistics lecturer at Yeshiva University NY Statistical Consultant for <i>Lionbase</i> Co-president of <i>Club de Lecture</i> HSG Co-founder at <i>Mia</i>	2018 – 2019 KU Leuven & Columbia University LEUVEN, BE NEW YORK, US <i>Master in Statistics (1st & 2nd year respectively)</i> <i>Magna Cum Laude</i> Thesis Digitizing and Reconstructing Kaplan Meier Survival Data – The survThief package 2012 – 2016 Universität St Gallen [HSG] ST GALLEN, CH <i>Bachelor in Economics</i> Thesis Debt Relief Efficiency 
Publications	
2024 AI for neuroscience paper [Anonymised]. @NeurIPS (under review)	
2023 RecFusion: A Binomial Diffusion Process for 1D Data for Recommendation. Gabriel Bénédict , Olivier Jeunen, Samuele Papa, Samarth Bhargav, Daan Odijk, Maarten de Rijke. @GenRec-CIKM 	
2022 sigmoidF1: A Smooth F1 Score Surrogate Loss for Multilabel Classification. Gabriel Bénédict , Hendrick Vincent Koops, Daan Odijk, Maarten de Rijke. @TMLR 	
2022 Intent-Satisfaction Modeling: From Music to Video Streaming. Gabriel Bénédict , Daan Odijk, Maarten de Rijke. @TORS 	
co-first-author	2022 RADio–Rank-Aware Divergence Metrics to Measure Normative Diversity in News Recommendations <i>Sanne Vrijenhoek*</i> , Gabriel Bénédict* , Mateo Gutierrez Granada, Daan Odijk, Maarten de Rijke. @Recsys 
2021 The University of Amsterdam at the TREC 2021 Fair Ranking Track. Ali Vardasbi, Gabriel Bénédict , Shashank Gupta, Maria Heuss, Pooya Khandel, Ming Li, Fatemeh Sarvi. @TREC 	