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gabriben.github.io	
 <b>Contact</b> gbndict@gmail.com +34 673 069 244 +41 79 411 92 06	<b>Research Interests</b>
	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 
	<b>Experience</b>
<b>Date of birth</b> 31.10.1993	Dec. 23. – Present <b>Amazon</b> MADRID, ES <i>Machine Learning Scientist, GenAI</i> Generative AI for Amazon devices. LLMs (<8B) on the edge: custom losses for LLMs, LLMs for touch screens, device using agents.
<b>Citizenship</b> Swiss, French, Brazilian	Oct. 20 - Nov.23 <b>RTL NL</b> 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.
<b>Languages</b> <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 <b>Bertelsmann</b> HAMBURG, GE / AMSTERDAM, NL / LYON, FR <i>Data Scientist at Gruner &amp; 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.
<b>Workshop co-organization</b> Generative Information Retrieval @SIGIR 23  Generative Information Retrieval @SIGIR 24	Aug. – Sep. 19 <b>Cambridge University</b> CAMBRIDGE, UK <i>Deep Learning Researcher</i> Self-supervised learning with autoencoders for genomics on UK BioBank
<b>Reviewing</b> NeurIPS 23, AABI 23, AISTATS 21 & 22, MLRC 22	Jul. – Sep. 18 <b>Cytel</b> BARCELONA, ES <i>Statistician</i> Research and R-package development for adaptive non-parametric survival clinical trials
<b>Awards</b> Best Paper Runner up @Recsys22, MVP 22 @IRLab	14 – 18 <b>Internships and Short Term Research</b> <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
<b>Talks</b> GenIR @ZetaAlpha [recording]  GenIR & RecFusion @Naver/AMLab/ ADS/FoMo	<b>Education</b>
<b>Sports</b> Ski-touring, bouldering, tennis, rugby	Oct. 20 - Nov.23 <b>University of Amsterdam</b> AMSTERDAM, NL <i>PhD candidate in AI for personalization</i>
<b>Extracurricular</b> 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 <b>KU Leuven &amp; Columbia University</b> LEUVEN, BE NEW YORK, US <i>Master in Statistics (1st &amp; 2nd year respectively)</i> <i>Magna Cum Laude</i> <b>Thesis</b> Digitizing and Reconstructing Kaplan Meier Survival Data – The survThief package  2012 – 2016 <b>Universität St Gallen [HSG]</b> ST GALLEN, CH <i>Bachelor in Economics</i> <b>Thesis</b> Debt Relief Efficiency 

## Publications

2025	SIM: Surface-based fMRI Analysis for Inter-Subject Multimodal Decoding from Movie-Watching Experiments. <i><b>Gabriel Bénédict</b>, Simon Dahan, Logan Z. J. Williams, Yourong Guo, Daniel Rueckertt, Robert Leech, Emma C. Robinson</i> @ICLR 
2023	RecFusion: A Binomial Diffusion Process for 1D Data for Recommendation. <i><b>Gabriel Bénédict</b>, Olivier Jeunen, Samuele Papa, Samarth Bhargav, Daan Odijk, Maarten de Rijke.</i> @GenRec-CIKM 
2022	sigmoidF1: A Smooth F1 Score Surrogate Loss for Multilabel Classification. <i><b>Gabriel Bénédict</b>, Hendrick Vincent Koops, Daan Odijk, Maarten de Rijke.</i> @TMLR 
2022	Intent-Satisfaction Modeling: From Music to Video Streaming. <i><b>Gabriel Bénédict</b>, Daan Odijk, Maarten de Rijke.</i> @TORS 
2022	RADio–Rank-Aware Divergence Metrics to Measure Normative Diversity in News Recommendations <i><b>Gabriel Bénédict</b>, Sanne Vrijenhoek, Mateo Gutierrez Granada, Daan Odijk, Maarten de Rijke.</i> @Recsys 
2021	The University of Amsterdam at the TREC 2021 Fair Ranking Track. <i>Ali Vardasbi, <b>Gabriel Bénédict</b>, Shashank Gupta, Maria Heuss, Pooya Khandel, Ming Li, Fatemeh Sarvi.</i> @TREC 