Jessica Waita **Echterioi**■ contact@jessicaechterhoff.com

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■ jessica-maria-echt

Experience

Machine Learning Research Scientist Intern Apple Inc., Cupertino, USA 01/2024-06/2024

Provided an approach leading to 40% less performance degradation when continuously updating LLMs

Machine Learning and Data Science Intern Microsoft Inc., Redmond, USA 06/2023-09/2023

Automated manual tabular data analysis with a data-centric decision-making tool to evaluate hypothetical scenarios

Machine Learning Research Intern APPLE INC., CUPERTINO, USA 06/2022-09/2022

 $Automated\ annotation\ tasks\ leading\ to\ up\ to\ 100\%\ reduction\ of\ annotation\ volume\ using\ models-in-the-data-annotation-loop\ tasks\ described an annotation of\ tasks\ described annotation\ tasks\ described an a$

Provided a model-in-the-loop data annotation approach leading to 30% cost reduction

Machine Learning Research Intern Apple Inc., Heidelberg, Germany

Software Engineer Sidekick Interactive Inc., Montréal, Canada 02/2019-08/2019

Built, maintained and tested 8 native iOS and 5 native Android applications for 5 different customers

Software Engineer Freelancer, Chile 12/2018-01/2019

Leading iOS developer for implementation, maintenance and testing of an iOS application for a German learning-transfer startup

Software Engineer Everskill GMBH MUNICH, GERMANY

Developed, maintained and tested functional and technical components of an iOS learning-transfer application

Advising Developer Barkawi Management Consultants GmbH & Co. KG Munich, Germany 05/2016-01/2017

Coordinated the implementation of the user interface redesign for an American agricultural machinery manufacturer by leading the front-end development and customer validation process

Web Developer LENDICO DEUTSCHLAND GMBH BERLIN, GERMANY

03/2015-07/2015

07/2021 - 12/2021

06/2017-08/2018

Built a search engine optimized landing page by leading a 3-people student development team

Education

Doctor of Philosophy in Computer Science University of California, San Diego, USA 04/2022–ongoing

Research on human and data centric machine learning; GPA: 3.6/4.0; Expected graduation in December 2024

Master of Science in Machine Learning University of California, San Diego, USA 09/2019-03/2022

Specialization in applied machine learning; Research in human centered computing; GPA: 3.44/4.0

Exchange Semester Information Technology École de Technologie Supérieure Montréal, Canada 09/2018-12/2018

Specialization in machine learning and software engineering (French program); GPA: 3.73/4.3

Bachelor of Science in Informatics Technical University Munich, Germany 04/2016-03/2019

Minor in business administration; Thesis: "Gait and Jump Classification in Equestrian Sports"; GPA: 2.2/1.0 (lower is better)

Bachelor of Science in Management and Technology Technical University Munich, Germany 10/2013-09/2016

Minor in informatics and finance; Thesis: "CSR Reporting and Capital Market Reactions"; GPA: 2.5/1.0 (lower is better)

Exchange Semester Intensive Chinese Language Course Zhejiang University Hangzhou, China 09/2015-12/2015

Studies of Chinese culture and language in an intensive intercultural program

Skills.

Languages German (Native), English (C2), French (B2), Mandarin (HSK1), Spanish (A1)

Programming Python, PyTorch (Proficient), SQL, C++, JavaScript, Swift, HTML/CSS, MATLAB (COMPETENT), Java, Kotlin,

Tensorflow, O-Caml, Objective-C, C (Familiar)

Scholarships and Fellowships

Apple Scholars in AI/ML PhD Fellowship

Women in Machine Learning Scholarship to attend ICLR VIRTUAL

2020

Graduate Women in Computing Scholarship to attend Grace Hopper Celebration VIRTUAL

2019–2020

ACM-W Scholarship to present at Ubicomp/ISWC SINGAPORE

UCSD Electrical and Computer Engineering Fellowship (56,000US\$)

2018

2021

ACM Scholarship to Attend Summer School ISRAEL

2018

Selected to attend a fully funded summer school for social signal processing, displays and interaction with smart environments

Entrepreneurial Research Scholarship Tsinghua University Beijing/Technical University Munich

2017

Selected as part of a high-potential team to attend a fully funded exchange program to expand business ideas in China

Projects and Prizes _

Internship work was selected as a poster Apple Data Science and Machine Learning Summit

Winning Team TechFest Hackathon and Osram/Adidas Challenge MUNICH, GERMANY

2021-2022

 ${\bf Graduate\ Student\ Service\ Award\ } \ {\bf University\ of\ California,\ San\ Diego,\ USA$

2020

Awarded for helping prospective students connect to potential advisors

2016

Developed a smart cycling jacket to prevent accidents in traffic (297 participants)

3rd Place Startup Weekend HANGZHOU, CHINA

2015

Developed an iOS application to connect athletes in China (50 participants)

September 28, 2024 Jessica M. Echterhoff

Accepted to the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP Findings)

Avoiding Decision Fatigue in Recommendation with AI-Assisted Decision-Making

Jessica Echterhoff, Aditya Melkote, Sujen Kancherla and Julian McAuley

2024 ACM Conference on User Modeling, Adaptation and Personalization (UMAP)

Augmenting Teles-Postpartum Care With Vision-Based Detection of Breastfeeding-Related Conditions

Augmenting Tele-Postpartum Care With Vision-Based Detection of Breastfeeding-Related Conditions2024Jessica De Souza, Varun Viswanath, Jessica Echterhoff, Kristina Chamberlain, Edward Jay WangJournal of Medical Internet Research AI

Are Automatic Evaluations Consistent with User Studies?

Haozhe Xu, Zhankui He, Jessica Echterhoff, Xiaoqing Zheng, Julian McAuley

Under Submission

PDB-Eval: Evaluating Multimodal Models for Description and Explanation of Personalized Driving Behavior
Junda Wu, Jessica Echterhoff, An Yan, Kyungtae Han, Amr Abdelraouf, Rohit Gupta, Julian McAuley
Under Submission

Evaluating Large Language Models as Generative User Simulators for Conversational Recommendation
Se-eun Yoon, Zhankui He, Jessica Echterhoff, and Julian McAuley
2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)

Driving through the Concept Gridlock: Unraveling Explainability Bottlenecks in Automated Driving

Jessica Echterhoff, An Yan, Kyungtae Han, Rohit Gupta, Amr Abdelraouf and Julian McAuley

2024 Winter Conference on Applications in Computer Vision

Should you make your decisions on a WhIM? Data-Driven Decision making using a What-If Machine

Jessica Echterhoff, Bhaskar Sen, Yifei Ren, Nikhil Gopal

arXiv:2309.17364

Comparing Comparisons: Generating Aspect-Aware Comparative Sentences

Jessica Echterhoff and Julian McAuley
arXiv:2307.03691

AI-Moderated Decision Making: Capturing and Balancing Anchoring Bias in Sequential Decision Tasks

Jessica Echterhoff, Matin Yarmand, and Julian McAuley

Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems

SpecTracle: Wearable Facial Motion Tracking from Unobstructing Peripheral Cameras
Yinan Xuan, Varun Viswanath, Sunny Chu, Owen Bartolf, Jessica Echterhoff and Edward J. Wang
arXiv:2308.07502

PAR: Personal Activity Radius Camera View for Contextual Sensing
Jessica Echterhoff and Edward J. Wang

Gait Analysis in Horse Sports

Jessica Echterhoff, Juan Haladjian and Bernd Brügge

Proceedings of the Fifth ACM International Conference on Animal-Computer Interaction 2018

Gait and Jump Classification in Modern Equestrian Sports

2018

Jessica Echterhoff, Juan Haladjian and Bernd Brügge Proceedings of the 2018 ACM International Symposium on Wearable Computers

arXiv:2008.07204