\blacksquare contact@jessicaechterhoff.com in jessica-maria-echt

Machine Learning Research Scientist Intern Apple Inc., Cupertino, USA

01/24-06/24

Developed a LLM model update strategy minimizing regression by 40%

Machine Learning and Data Science Intern Microsoft Inc., REDMOND, USA

06/23-09/23

Developed a data-centric decision-making tool to evaluate hypothetical scenarios and reduce manual tabular data analysis

Machine Learning Research Intern Apple Inc., Cupertino, USA

06/22-09/22

Provided a model-in-the-data-annotation-loop to automate an annotation task leading to up to 100% reduction of annotation volume

Machine Learning Research Intern Apple Inc., Heidelberg, Germany

07/21-12/21

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

Software Developer Sidekick Interactive Inc., Montréal, Canada

02/19-08/19

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

Mobile Applications Developer Freelancer, Chile

12/18-01/19

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

Software Engineer Everskill GmbH Munich, Germany

06/17-08/18

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

Advising Developer Barkawi Management Consultants GmbH & Co. KG Munich, Germany

05/16-01/17

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

03/15-07/15

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

Doctor of Philosophy in Computer Science University of California, San Diego, USA

04/22-ongoing

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

 ${\bf Master\ of\ Science\ in\ Machine\ Learning\ } \ {\bf University\ of\ California,\ San\ Diego,\ USA$

09/19-03/22

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

09/18-12/18

Specialization in machine learning and software engineering in a French speaking program; GPA: 3.73/4.3

Bachelor of Science in Informatics Technical University Munich, Germany

04/16-03/19

Minor in business administration; Thesis: "Gait and Jump Classification in Equestrian Sports" (grade 1.0); GPA: 2.2 (1.0 best-4.0 worst)

Bachelor of Science in Management and Technology Technical University Munich, Germany

Minor in informatics and finance; Thesis: "CSR Reporting and Capital Market Reactions" (grade 2.0); GPA: 2.5 (1.0 best-4.0 worst) Exchange Semester Intensive Chinese Language Course Zhejiang University Hangzhou, China

Studies of Chinese culture and language in an intensive intercultural program

09/15-12/15

Skills.

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

Programming Python, Pytorch, SQL, C++, JavaScript, Swift, HTML, CSS, Java, Kotlin, Tensorflow, Objective-C, C

Scholarships and Fellowships __

Apple Scholars in AI/ML Fellowship

2023-2025

Selected to receive a research fellowship based on academic and research excellence

Women in Machine Learning Scholarship to attend ICLR VIRTUAL CONFERENCE

05/21

Graduate Women in Computing Scholarship to attend Grace Hopper Celebration Virtual Conference

09/20 09/19-06/20

Electrical and Computer Engineering Fellowship University of California, San Diego, USA Selected to receive a research fellowship based on academic fit to the department's research endeavors (56,000US\$)

Scholarship to Attend Research Conferences ACM-W Selected by ACM to be funded to present my paper at Ubicomp/ISWC 2018

ACM Scholarship to Attend Summer School HAIFA, ISRAEL

10/18 10/18

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

07/17-09/17

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

e-Fellows Scholarship Munich, Germany

04/13-04/15

Selected as one of the best German-speaking high-potential candidates based on school GPA

Projects and Prizes _

Internship work was presented as a poster Apple Data Science Summit and Apple Machine Learning Summit Summited Europe's Highest Mountain (15,774 ft/4,808 m) Mont Blanc, France

12/21 || 2/22 08/21

September 4, 2024 Jessica M. Echterhoff

Graduate Awarded for Winning Won 1st p 3rd Place	e Student Service Award University of California, San Diego, USA for outstanding support and service by helping prospective students connect to potential advisors Team TechFest Hackathon and Osram/Adidas Challenge Munich, Germany clace with two colleagues by developing a smart cycling jacket to prevent accidents in traffic (297 participants)	07/20 06/20 09/16 11/15
Service _		—
Mentor U	r ACM WebConf ('21,'23); UbiComp/ISWC Conference ('20); IEEE JBHI ('19) UCSD Grad Women in Computing ('21); UCSD ECE GradPal ('21,'22) r UbiComp/ISWC ('20); ICML ('20); ACI Conference ('18); Web Summit ('17)	
Teaching		
Object-O	Networks/Pattern Recognition; Recommender Systems; Big Data Analysis UC SAN DIEGO Oriented Programming; Rapid Software and Hardware Design UC SAN DIEGO d Topics in Software Engineering UC SAN DIEGO	2022 2021 2020
Publicati	ons	
06/2024	Jessica Maria Echterhoff, Fartash Faghri, Raviteja Vemulapalli, Ting-Yao Hu, Chun-Liang Li, Oncel Tuzel, Hadi Pouransari; "MUSCLE: A Model Update Strategy for Compatible LLM Evolution", Under Submission	
06/2024	Haozhe Xu, Zhankui He, Jessica Maria Echterhoff, Xiaoqing Zheng, Julian McAuley; "Are Automatic Evaluation Consistent with User Studies? A Meta-Evaluation for Conversational Recommendation", Under Submission	
06/2024	Jessica Maria Echterhoff, Yao Liu, Abeer Alessa, Julian McAuley and Zexue He; "Cognitive Bias in High Stakes Decision-Making with LLMs", Under Submission	i
06/2024	Jessica De Souza, Varun Viswanath, Jessica Maria Echterhoff, Kristina Chamberlain, Edward Jay Wang; "Augment Tele-Postpartum Care With Vision-Based Detection of Breastfeeding-Related Conditions: Algorithm Development and Validation", Journal of Medical Internet Research AI	ting
03/2024	Junda Wu, Jessica Maria Echterhoff, An Yan, Kyungtae Han, Amr Abdelraouf, Rohit Gupta, Julian McAuley; "PDB-Eval: An Evaluation of Large Multimodal Models for Description and Explanation of Personalized Driving Behavior", Under Submission	i
01/2024	Jessica Maria Echterhoff, Aditya Melkote, Sujen Kancherla and Julian McAuley; "Avoiding Decision Fatigue in Recommendation with AI-Assisted Decision-Making", 2024 ACM Conference on User Modeling, Adaptation and Personalization (UMAP)	ļ.
01/2024	Se-eun Yoon, Zhankui He, Jessica Maria Echterhoff, and Julian McAuley; "Evaluating Large Language Models Generative User Simulators for Conversational Recommendation", 2024 Annual Conference of the North Amer Chapter of the Association for Computational Linguistics (NAACL)	
01/2024	Jessica Maria Echterhoff, An Yan, Kyungtae Han, Rohit Gupta, Amr Abdelraouf and Julian McAuley; "Driving through the Concept Gridlock: Unraveling Explainability Bottlenecks in Automated Driving", 2024 Winte Conference on Applications in Computer Vision	er:
09/2023	Jessica Maria Echterhoff, Bhaskar Sen, Yifei Ren, Nikhil Gopal; "Should you make your decisions on a WhIM Data-Driven Decision making using a What-If Machine for Evaluation of Hypothetical Scenarios", arXiv:2309.17364	[?
06/2023	Jessica Maria Echterhoff and Julian McAuley; "Comparing Comparisons: Generating Aspect-Aware Comparative Sentences", arXiv Preprint, arXiv:2307.03691	
03/2022	Jessica Maria Echterhoff, Matin Yarmand, and Julian McAuley; "AI-Moderated Decision Making: Capturing and Balancing Anchoring Bias in Sequential Decision Tasks", Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems	
11/2021	Yinan Xuan, Varun Viswanath, Sunny Chu, Owen Bartolf, Jessica Maria Echterhoff and Edward J. Wang; "SpecTracle: Wearable Facial Motion Tracking from Unobstructing Peripheral Cameras", arXiv Preprint, arXiv:2308.07502	
08/2020	Jessica Maria Echterhoff and Edward J. Wang; "PAR: Personal Activity Radius Camera View for Contexts Sensing", arXiv Preprint, arXiv:2008.07204	ual
12/2018	Jessica Maria Echterhoff, Juan Haladjian and Bernd Brügge; "Gait Analysis in Horse Sports", Proceedings of to Fifth ACM International Conference on Animal-Computer Interaction 2018	he
10/2018	Jessica Maria Echterhoff, Juan Haladjian and Bernd Brügge; "Gait and Jump Classification in Modern Equestrian Sports", Proceedings of the 2018 ACM International Symposium on Wearable Computers	