$\blacksquare$  contact@jessicaechterhoff.com

in jessica-maria-echt 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 January 2025 Master of Science in Machine Learning 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 Abitur Gymnasium der Stadt Verl, Germany 06/10-08/13 Majored in English and French; GPA: 1.4 (1.0 best-4.0 worst); Best transfer student of 2013 Experience. Machine Learning Research Scientist Intern Apple Inc., Cupertino, USA 01/24-06/24 Developed a model update strategy minimizing regression in LLMs by 40% Machine Learning and Data Science Intern Microsoft Inc., Redmond, USA Delevoped a data-centric decision-making tool to evaluate hypothetical scenarios and reduce manual 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 Developed, maintained and tested functional and technical components of an iOS learning-transfer application Advising Developer Barkawi Management Consultants GmbH & Co. KG Munich, Germany Coordinated the implementation of the user interface redesign for an American agricultural machinery manufacturer by leading the front-end development and customer validation process iOS Developer Roche Diabetes Care Munich, Germany Built a diabetes management system in cooperation with TU Munich by leading the user interface implementation in a student team Web Developer Lendico Deutschland GmbH Berlin, Germany Built a search engine optimized landing page by leading a 3-people student development team 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 Finisher Int. Bad Pyrmont Marathon (1st in age group, 21/146 overall) BAD PYRMONT, GERMANY Graduate Student Service Award University of California, San Diego, USA 06/20Awarded for outstanding support and service by helping prospective students connect to potential advisors Winning Team TechFest Hackathon and Osram/Adidas Challenge MUNICH, GERMANY Won 1st place with two colleagues by developing a smart cycling jacket to prevent accidents in traffic (297 participants) 3rd Place Startup Weekend HANGZHOU, CHINA Won 3rd place with two colleagues by developing an iOS application to connect athletes in China (50 participants)

Scholarships and Fellowships \_

Apple Scholars in AI/ML Fellowship

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

Women in Machine Learning Scholarship to attend ICLR VIRTUAL CONFERENCE

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

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

July 26, 2024 Jessica M. Echterhoff

06/23-09/23

06/17-08/18

05/16-01/17

03/16-07/16

03/15-07/15

12/21 || 2/22

08/21

07/20

09/16

11/15

2023-2025

05/21

09/20

09/19-06/20

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

## Service \_

Reviewer ACM WebConf ('21,'23); UbiComp/ISWC Conference ('20); IEEE JBHI ('19)

Mentor UCSD GRAD WOMEN IN COMPUTING ('21); UCSD ECE GRADPAL ('21,'22)

 $\textbf{Volunteer} \quad \textbf{UbiComp/ISWC ('20); ICML ('20); ACI Conference ('18); Web Summit ('17)}$ 

## Skills \_\_\_

Programming Languages/Frameworks Spoke							Languages		
Рутноп	• • •	JavaScript	• • 0	OCAML	• 0 0	GERMAN	• • •	LATIN	• 0 0
PyTorch	• • •	Java	$\bullet$ $\circ$ $\circ$	OBJECTIVE-C	• 0 0	ENGLISH	• • •	SPANISH	$\bullet$ $\circ$ $\circ$
SWIFT	$\bullet$ $\bullet$ $\circ$	Kotlin	$\bullet$ $\circ$ $\circ$	C++	• 0 0	FRENCH	$\bullet$ $\bullet$ $\circ$		
HTML CSS	$\bullet$ $\bullet$ $\circ$	Tensorflow	$\bullet$ $\circ$ $\circ$	C	• 0 0	MANDARIN	• 0 0		

## Teaching \_\_

Neural Networks/Pattern Recognition; Recommender Systems; Big Data Analysis UC SAN DIEGO	2022
Object-Oriented Programming; Rapid Software and Hardware Design UC SAN DIEGO	2021
Advanced Topics in Software Engineering UC SAN DIEGO	2020

Jessica Maria Echterhoff, Fartash Faghri, Raviteja Vemulapalli, Ting-Yao Hu, Chun-Liang Li, Oncel Tuzel, Hadi

## Publications .

06/202	Pouransari; "MUSCLE: A Model Update Strategy for Compatible LLM Evolution", Under Submission
06/202	Haozhe Xu, Zhankui He, Jessica Maria Echterhoff, Xiaoqing Zheng, Julian McAuley; "Are Automatic Evaluations Consistent with User Studies? A Meta-Evaluation for Conversational Recommendation", Under Submission
06/202	Jessica Maria Echterhoff, Yao Liu, Abeer Alessa, Julian McAuley and Zexue He; "Cognitive Bias in High Stakes Decision-Making with LLMs", Under Submission
06/202	Jessica De Souza, Varun Viswanath, Jessica Maria Echterhoff, Kristina Chamberlain, Edward Jay Wang;  "Augmenting Tele-Postpartum Care With Vision-Based Detection of Breastfeeding-Related  Conditions: Algorithm Development and Validation", Accepted to the Journal of Medical Internet Research
03/202	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
01/202	Jessica Maria Echterhoff, Aditya Melkote, Sujen Kancherla and Julian McAuley; "Avoiding Decision Fatigue in Recommendation with AI-Assisted Decision-Making", Accepted to the 2024 ACM Conference on User Modeling, Adaptation and Personalization (UMAP)
01/202	Se-eun Yoon, Zhankui He, Jessica Maria Echterhoff, and Julian McAuley; "Evaluating Large Language Models as Generative User Simulators for Conversational Recommendation", Accepted to the 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)
01/202	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 Winter Conference on Applications in Computer Vision
09/202	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
06/202	Jessica Maria Echterhoff and Julian McAuley; "Comparing Comparisons: Generating Aspect-Aware Comparative Sentences", arXiv Preprint, arXiv:2307.03691
03/202	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, <b>Jessica Maria Echterhoff</b> 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 Contextual Sensing", arXiv Preprint, arXiv:2008.07204
12/2018	Jessica Maria Echterhoff, Juan Haladjian and Bernd Brügge; "Gait Analysis in Horse Sports", Proceedings of the Fifth ACM International Conference on Animal-Computer Interaction 2018
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