


# Julian Skirzyński

CURRICULUM VITAE — APRIL 2025

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EDUCATION	<b>University of California, San Diego</b> <i>Ph.D. Candidate in Computer Science &amp; Engineering</i> Thesis: Designing AI for Better Decision-Making Advisor: Berk Ustun	2022 – PRESENT
	<b>McGill University</b> <i>M.S. in Computer Science</i> Thesis: <a href="#">Language-Conditional Imitation Learning</a> Advisor: David Meger	2017 – 2020
	<b>University of Warsaw</b> <i>M.S. in Cognitive Science</i> <i>B.S. in Mathematics, Cognitive Science</i> Advisors: Andrzej Skowron; Piotr Wasilewski	2012 – 2018
ACADEMIC POSITIONS	<b>Max Planck Institute for Intelligent Systems, Germany</b> <i>Research Scientist</i> Projects: Interpretable RL Policies, Improving Human Planning, Discovering Human Planning Strategies Advisor: Falk Lieder	2019 – 2023
RESEARCH INTERESTS	<b>Areas:</b> Machine Learning, Cognitive Science, Human-Computer Interaction <b>Topics:</b> Decision-Making, Interpretability, Explainability, Reinforcement Learning, Experimental Design <b>Applications:</b> Social Sciences, Medicine, Consumer Finance, Criminal Justice	
AWARDS & HONORS	Pierre Arbour Foundation Scholarship McGill University Graduate Excellence Award McGill - University of Warsaw Exchange Scholarship University of Warsaw Academic Excellence Scholarship	2018 – 2019 2018 2015 2014 – 2017
PREPRINTS	1. <a href="#">On the Value of Interpretability in Human Decision-Making</a> Julian Skirzyński, Elena Glassman, Berk Ustun <i>In Submission, 2025</i>	
PAPERS	2. <a href="#">Discrimination Exposed? On the Reliability of Explanations for Discrimination Detection</a> Julian Skirzyński, David Danks, Berk Ustun <i>ACM Conference on Fairness, Accountability, and Transparency, 2025</i>	
<small>*EQUAL CONTRIBUTION</small>	3.  <a href="#">Automatic Discovery and Description of Human Planning Strategies</a> Julian Skirzyński, Yash Raj Jain, Falk Lieder <i>Behavior Research Methods, 2023</i>	
	4. <a href="#">Boosting Human Decision-making with AI-Generated Decision Aids</a> Frederic Becker*, Julian Skirzyński*, Bas van Opheusden, Falk Lieder <i>Computational Brain &amp; Behavior, 2022</i>	
	5. <a href="#">Automatic Discovery of Interpretable Planning Strategies</a> Julian Skirzyński, Frederic Becker, Falk Lieder <i>Machine Learning, 2021</i>	

	6.	<a href="#">Object [Re] Cognition with Similarity</a> Łukasz Sosnowski, Julian Skirzyński <i>International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems</i> , 2018	
	7.	<a href="#">A Framework for Analysis of Granular Neural Networks</a> Julian Skirzyński <i>International Joint Conference on Rough Sets</i> , 2017	
REFEREED WORKSHOP PAPERS	8.	<a href="#">On Interpretability and Overreliance</a> Julian Skirzyński, Elena Glassman, Berk Ustun <i>Interpretable AI: Past, Present and Future, NeurIPS Workshop</i> , 2024	
	9.	<a href="#">Language-Conditional Imitation Learning</a> Julian Skirzyński, Bobak Baghi, David Meger <i>Visually Grounded Interaction and Language, NAACL Workshop</i> , 2021	
TEACHING		<b>UCSD Halicioğlu Data Science Institute</b> <a href="#">DSC291 – Interpretability &amp; Explainability in Machine Learning</a> <i>Guest Lecturer &amp; Teaching Assistant</i> Co-designed curriculum and held weekly office hours for serving 20+ PhD/MS students. Delivered guest lectures on ML interpretability methods and cognitive biases in AI-assisted decision-making. Completed teaching development workshop on graduate-level instruction.	2023
SOFTWARE		<a href="#">Strategy Extraction from RL Policies</a> – Algorithm to extract interpretable decision trees from RL policies  <a href="#">GitHub</a> <a href="#">Human Planning Strategy Analysis</a> – Framework for identifying strategies used in human planning tasks	
SELECTED INDUSTRY POSITIONS		<b>Educational Entertainment One</b> , Warsaw, Poland <i>Lead Technical Architect</i> Designed algorithms (AI, NLP) and supported the production process for a story-driven mobile game for learning English.	2021 – 2024
ACADEMIC SERVICE		<b>JOURNAL REVIEWING</b> Machine Learning	2022
		<b>CONFERENCE PROGRAM COMMITTEE</b> NeurIPS – Conference on Neural Information Processing Systems ICML – International Conference on Machine Learning ICLR – International Conference on Learning Representations FAccT – ACM Conference on Fairness, Accountability and Transparency ICML Workshop RL4RealLife – International Conference on Machine Learning IPMU – Information Processing and Management of Uncertainty in Knowledge-Based Systems	2023 – PRESENT 2025 – PRESENT 2024 – PRESENT 2022 – PRESENT 2021 2018
PERSONAL		<b>Language Skills</b> : English, Polish, German (Conversational) <b>Software Skills</b> : Python, R, C++, Flask, AWS, PyTorch, CPLEX, JavaScript, Jira <b>Interests</b> : Soccer, Groundhopping, Traveling, Fantasy Literature, Record Collecting <b>Other</b> : Peer tutoring, Co-author of “Triozy polskie”, a textbook for learning Polish by foreigners	