

Julian Skirzyński

CURRICULUM VITAE — MARCH 2025


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EDUCATION	University of California, San Diego <i>Ph.D. Candidate in Computer Science & Engineering</i> Thesis: Empirical Toolbox for Evaluating and Redesigning Human-AI Collaboration Advisor: Berk Ustun	2022 – PRESENT
	McGill University <i>M.S. in Computer Science</i> Thesis: Language-Conditional Imitation Learning Advisor: David Meger	2017 – 2020
	University of Warsaw <i>M.S. in Cognitive Science</i> <i>B.S. in Mathematics, Cognitive Science</i> Advisors: Andrzej Skowron (Mathematics); Piotr Wasilewski (Cognitive Science)	2012 – 2018
ACADEMIC POSITIONS	Max Planck Institute for Intelligent Systems, Tübingen, Germany <i>Researcher</i> Led a project on interpretable RL policies and interventions that use them to aid human planning. Advisor: Falk Lieder	2019 – 2023
RESEARCH INTERESTS	Areas: Machine Learning, Cognitive Science, Human-Computer Interaction Topics: Decision-Making, Interpretability, Explainability, Reinforcement Learning, Experimental Design, Human-AI Collaboration Applications: 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	<div>[1] On the Value of Interpretability in Human Decision-Making Julian Skirzyński, Elena Glassman, Berk Ustun <i>In Submission</i>, 2025</div> <div>[2] Discrimination Exposed? On the Reliability of Explanations for Discrimination Detection Julian Skirzyński, Davind Danks, Berk Ustun <i>In Submission</i>, 2025</div>	
PAPERS	<div>[3] Automatic Discovery and Description of Human Planning Strategies Julian Skirzyński, Yash Raj Jain, Falk Lieder <i>Behavior Research Methods</i>, 2023</div> <div>[4] Boosting Human Decision-making with AI-Generated Decision Aids Frederic Becker*, Julian Skirzyński*, Bas van Opheusden, Falk Lieder <i>Computational Brain & Behavior</i>, 2022</div> <div>[5] Automatic Discovery of Interpretable Planning Strategies Julian Skirzyński, Frederic Becker, Falk Lieder <i>Machine Learning</i>, 2021</div>	

*EQUAL CONTRIBUTION



	<p>[6] Object [Re] Cognition with Similarity Łukasz Sosnowski, Julian Skirzyński <i>International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems</i>, 2018</p> <p>[7] A Framework for Analysis of Granular Neural Networks Julian Skirzyński <i>International Joint Conference on Rough Sets</i>, 2017</p>												
REFEREED WORKSHOP PAPERS	<p>[8] On Interpretability and Overreliance Julian Skirzyński, Elena Glassman, Berk Ustun <i>Interpretable AI: Past, Present and Future, NeurIPS Workshop</i>, 2024</p> <p>[9] Language-Conditional Imitation Learning Julian Skirzyński, Bobak Baghi, David Meger <i>Visually Grounded Interaction and Language, NAACL Workshop</i>, 2021</p>												
TEACHING	<p>DSC291 – Interpretability & Explainability in Machine Learning 2023 <i>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</p>												
SOFTWARE	<p>Strategy Extraction from RL Policies – Algorithm to extract interpretable decision trees from RL policies  GitHub Human Planning Strategy Analysis – Framework for identifying strategies used in human planning tasks</p>												
SELECTED INDUSTRY POSITIONS	<p>Educational Entertainment One, Warsaw, Poland 2021 – 2024 <i>Lead Technical Architect</i> Designed algorithms (AI, NLP) and supported the production process for a story-driven mobile game for learning English.</p>												
ACADEMIC SERVICE	<p>JOURNAL REVIEWING Machine Learning 2022</p> <p>CONFERENCE PROGRAM COMMITTEE</p> <table> <tr> <td>NeurIPS – Annual Conference on Neural Information Processing Systems</td> <td>2023 – 2025</td> </tr> <tr> <td>ICML – International Conference on Machine Learning</td> <td>2025</td> </tr> <tr> <td>ICLR – International Conference on Learning Representations</td> <td>2024</td> </tr> <tr> <td>FAccT – ACM Conference on Fairness, Accountability and Transparency</td> <td>2022 – 2025</td> </tr> <tr> <td>ICML Workshop RL4RealLife – International Conference on Machine Learning</td> <td>2021</td> </tr> <tr> <td>IPMU – Information Processing and Management of Uncertainty in Knowledge-Based Systems</td> <td>2018</td> </tr> </table>	NeurIPS – Annual Conference on Neural Information Processing Systems	2023 – 2025	ICML – International Conference on Machine Learning	2025	ICLR – International Conference on Learning Representations	2024	FAccT – ACM Conference on Fairness, Accountability and Transparency	2022 – 2025	ICML Workshop RL4RealLife – International Conference on Machine Learning	2021	IPMU – Information Processing and Management of Uncertainty in Knowledge-Based Systems	2018
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PERSONAL	<p>Language Skills : English, Polish, German (Conversational) Software Skills : Python, R, C++, Flask, AWS, PyTorch, CPLEX, JavaScript, Jira Interests : Soccer, Groundhopping, Traveling, Fantasy Literature, Record Collecting Other : Peer tutoring, Co-author of “Triozy polskie”, a textbook for learning Polish by foreigners</p>												