

Julian Skirzyński

CURRICULUM VITAE — JUNE 2023

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EDUCATION	University of California, San Diego, San Diego, CA 2022 – PRESENT <i>PhD in Computer Science & Engineering</i> Advisor: Berk Ustun Research Interests: Interpretable AI, Computational Cognitive Science, Decision-Making, Reinforcement Learning, Machine Learning
	McGill University, Montreal, QC 2017 – 2020 <i>M.Sc. in Computer Science</i> Thesis: Language-Conditional Imitation Learning Advisor: David Meger
	University of Warsaw, Warsaw, Poland 2012 – 2018 <i>M.Sc. in Cognitive Science</i> <i>B.Sc. in Cognitive Science, Mathematics</i> Advisors: Andrzej Skowron (Mathematics); Piotr Wasilewski (Cognitive Science)
AWARDS & HONORS	Pierre Arbour Foundation Scholarship, McGill University 2018 – 2019 Graduate Excellence Award, McGill University 2018 Scholarship for Exchange at McGill University, University of Warsaw 2015 Best Students Scholarship, University of Warsaw 2014 – 2017
RESEARCH & INDUSTRY	Educational Entertainment One, Warsaw, Poland 2021 – PRESENT <i>Lead Technical Architect</i> Design algorithms and support the production process for a story-driven mobile game for learning English.
	Max Planck Institute for Intelligent Systems, Tübingen, Germany 2019 – PRESENT <i>Researcher</i> Led project on discovering human-interpretable descriptions of reinforcement learning policies that are suitable for teaching people optimal strategies for solving problems.
PAPERS	[1] Automatic Discovery and Description of Human Planning Strategies Julian Skirzyński, Yash Raj Jain, Falk Lieder <i>Behavior Research Methods</i> , 2023
 Google Scholar	[2] Boosting Human Decision-making with AI-Generated Decision Aids Frederic Becker*, Julian Skirzyński*, Bas van Opheusden, Falk Lieder <i>Computational Brain & Behavior</i> , 2022
	[3] Automatic Discovery of Interpretable Planning Strategies Julian Skirzyński, Frederic Becker, Falk Lieder <i>Machine Learning</i> , 2021
	[4] 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
	[5] A Framework for Analysis of Granular Neural Networks Julian Skirzyński <i>International Joint Conference on Rough Sets</i> , 2017
REFEREED WORKSHOP PAPERS	[4] Language-Conditional Imitation Learning

Julian Skirzyński, Bobak Baghi, David Meger
Visually Grounded Interaction and Language, NAACL Workshop, 2021

POSTERS

- [5] [Encouraging far-sightedness with automatically generated descriptions of optimal planning strategies](#)
Frederic Becker, Julian Skirzyński, Bas van Opheusden, Falk Lieder
Proceedings of the Annual Meeting of the Cognitive Science Society, 2021
- [6] [Flexible Strategy Use in Soar's Tic-Tac-Toe](#)
Julian Skirzyński, Piotr Wasilewski
Proceedings of the Annual Meeting of the Cognitive Science Society, 2020
- [7] [Flexible Strategy Use in ACT-R's Tic-Tac-Toe](#)
Julian Skirzyński, Piotr Wasilewski
Proceedings of the Annual Meeting of the Cognitive Science Society, 2019

ACADEMIC
SERVICE

JOURNAL REVIEWING
Machine Learning

CONFERENCE PROGRAM COMMITTEE

FAccT – ACM Conference on Fairness, Accountability and Transparency	2022,2023
ICML Workshop RL4RealLife – International Conference on Machine Learning	2021
IPMU – Information Processing and Management of Uncertainty in Knowledge-Based Systems	2018

SOFTWARE



[InterpretableStrategyDiscovery](#) – find decision trees describing RL policies
[InterpretableHumanPlanning](#) – find strategies used by people in planning

PERSONAL

Language Skills : Fluent in Polish, English, Intermediate in German
Software Skills : C++, Python, R, Lisp, Java, Pytorch, Jira
Interests : Music collecting, Soccer, Groundhopping, Travel, Cultures of the world, Fantasy
Other : Peer tutoring, Co-author of “Triozy polskie”, a textbook for learning Polish by foreigners