

EDUCATION	<p>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</p> <p>McGill University, Montreal, QC 2017 – 2020 <i>M.Sc. in Computer Science</i> Thesis: Language-Conditional Imitation Learning Advisor: David Meger</p> <p>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)</p>
AWARDS & HONORS	<p>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</p>
RESEARCH & INDUSTRY	<p>Grantino, Warsaw, Poland 2024 – PRESENT <i>Grant Writing Contractor</i> Grant writing on IT-related R&D projects funded by the European Union (NCBiR, PARP) for selected partners</p> <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> <p>Max Planck Institute for Intelligent Systems, Tübingen, Germany 2019 – 2023 <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.</p>
PAPERS	<p>[1] Automatic Discovery and Description of Human Planning Strategies Julian Skirzyński, Yash Raj Jain, Falk Lieder <i>Behavior Research Methods</i>, 2023</p> <p> [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</p> <p>[3] Automatic Discovery of Interpretable Planning Strategies Julian Skirzyński, Frederic Becker, Falk Lieder <i>Machine Learning</i>, 2021</p> <p>[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</p>

- [5] [A Framework for Analysis of Granular Neural Networks](#)

Julian Skirzyński

International Joint Conference on Rough Sets, 2017

REFEREED
WORKSHOP
PAPERS

- [6] [Language-Conditional Imitation Learning](#)

Julian Skirzyński, Bobak Baghi, David Meger

Visually Grounded Interaction and Language, NAACL Workshop, 2021

POSTERS

- [7] [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

- [8] [Flexible Strategy Use in Soar's Tic-Tac-Toe](#)

Julian Skirzyński, Piotr Wasilewski

Proceedings of the Annual Meeting of the Cognitive Science Society, 2020

- [9] [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

TEACHING

DSC291 – Interpretability & Explainability in Machine Learning

Teaching Assistant: Co-designed class curriculum and contributed to instruction periodically

FA23

ACADEMIC
SERVICE

JOURNAL REVIEWING

Machine Learning

2022

CONFERENCE PROGRAM COMMITTEE

NeurIPS – Annual Conference on Neural Information Processing Systems

2023 – 2024

ICLR – International Conference on Learning Representations

2024

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