

# Julian Skirzyński

CURRICULUM VITAE — MAY 2022

(858) 222-9243  
jskirzynski@ucsd.edu

EDUCATION	<p><b>University of California, San Diego</b>, San Diego, CA 2022 – PRESENT <i>PhD in Computer Science &amp; Engineering</i> Advisor: Berk Ustun Research Interests: Interpretable AI, Computational Cognitive Science, Decision-Making, Reinforcement Learning, Machine Learning</p> <p><b>McGill University</b>, Montreal, QC 2017 – 2020 <i>M.Sc. in Computer Science</i> Thesis: <a href="#">Language-Conditional Imitation Learning</a> Advisor: David Meger</p> <p><b>University of Warsaw</b>, 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><b>Educational Entertainment One</b>, Warsaw, Poland 2021 – PRESENT <i>AI Designer and Production Manager</i> Design algorithms and support the production process for a story-driven mobile game for learning English.</p> <p><b>Max Planck Institute for Intelligent Systems</b>, 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.</p>
PAPERS	<p>[1] <a href="#">Automatic discovery of interpretable planning strategies</a> Julian Skirzyński, Frederic Becker, Falk Lieder <i>Machine Learning</i>, 2021</p> <p>[2] <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</p> <p>[3] <a href="#">A Framework for Analysis of Granular Neural Networks</a> Julian Skirzyński <i>International Joint Conference on Rough Sets</i>, 2017</p>
REFEREED WORKSHOP PAPERS	<p>[4] <a href="#">Language-Conditional Imitation Learning</a> Julian Skirzyński, Bobak Baghi, David Meger <i>Visually Grounded Interaction and Language, NAACL Workshop</i>, 2021</p>
POSTERS	<p>[5] <a href="#">Encouraging far-sightedness with automatically generated descriptions of optimal planning strategies</a> Frederic Becker, Julian Skirzyński, Bas van Opheusden, Falk Lieder <i>Proceedings of the Annual Meeting of the Cognitive Science Society</i>, 2021</p>

- [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*

## PREPRINTS

\*JOINT FIRST  
AUTHORSHIP

- [8] [Boosting human decision-making with AI-generated decision aids](#)  
 Frederic Becker\*, Julian Skirzyński\*, Bas van Opheusden, Falk Lieder  
*Manuscript in submission, 2022*
- [9] [Automatic discovery and description of human planning strategies](#)  
 Julian Skirzyński, Yash Raj Jain, Falk Lieder  
*Manuscript in submission, 2022*

## ACADEMIC SERVICE

JOURNAL REVIEWING  
 Machine Learning

CONFERENCE PROGRAM COMMITTEE

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

## SOFTWARE

 [GitHub](#)

[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