

EDGAR A. DUÉÑEZ-GUZMÁN

OBJECTIVE

Develop human-like intelligent systems that interact safely, ethically, and cooperatively.

WORK EXPERIENCE

PERIOD	July 2019 — Present	
EMPLOYER	Google Deepmind	London, UK
JOB TITLE	Staff Research Engineer	
	Developed theoretical and numerical models for understanding discrimination Developed zero-shot generalization benchmark for multi-agent RL: Melting Pot Developed library for generative AI agent-based modelling: Concordia	
PERIOD	March 2017 — July 2019	
EMPLOYER	Google Deepmind	Mountain View, USA
JOB TITLE	Senior Research Engineer	
	Launched WaveNet, the next-gen TTS for the Google Assistant Designed and deployed large-scale renewable energy prediction system Developed RL algorithms guaranteeing safety during learning	
PERIOD	October 2013 — March 2017	
EMPLOYER	Google	Mountain View, USA
JOB TITLE	Senior Software Engineer	
	Developed first machine intelligence algorithm for Image Search's index Core engineering member of confidential legal and policy-decision team Interview training, 7M views (https://youtu.be/XKu_SEDaykw)	
PERIOD	February 2010 — September 2013	
EMPLOYER	Harvard University & KU Leuven	Cambridge, USA & Leuven, Belgium
JOB TITLE	Postdoctoral fellow	
	Developed automatic genetic programming of robot swarms Developed models to study cooperation, punishment and corruption Used maximum-likelihood algorithms for phylogeny reconstruction	

EDUCATION

PERIOD	August 2005 — December 2009	
DEGREE	Doctorate in Computer Science	
UNIVERSITY	The University of Tennessee	Knoxville, USA
PERIOD	July 2004 — July 2005	
DEGREE	Master of Science in Applied Mathematics and Computing	
UNIVERSITY	Mathematics Research Centre (CIMAT)	Guanajuato, Mexico
PERIOD	August 1999 — June 2004	
DEGREE	Bachelor of Science in Mathematics	
UNIVERSITY	University of Guanajuato	Guanajuato, Mexico

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SELECTED HONOURS & AWARDS

YEAR	2020	
HONOUR	Highlighted as researcher of notice	dpmd.ai/meet-Edgar
YEAR	2016	
HONOUR	Showcased researcher by the American Mathematical Society	
PERIOD	2014 — Present	
AWARDS	10+ SPOT bonuses & 20+ Peer bonuses For significant contributions to engineering, policy, and diversity efforts	
PERIOD	1998 — 2003	
AWARDS	World finalist at ACM ICPC & 40th IMO The most prestigious programming and mathematics competitions	

SELECTED PUBLICATIONS

SUMMARY	45+ journal and conference articles, 2000+ citations (h-index 19) https://scholar.google.com/citations?user=H15wdrMAAAAJ	
VENUE	Proceedings of the Natl. Acad. of Sci. , in press	
TITLE	Perceptual interventions ameliorate statistical discrimination in learning agents	
AUTHORS	Duénez-Guzmán EA , Comanescu R, McKee KR, Mao Y, Coppin B, Chiappa S, Vezhnevets AS, Bakker MA, Bachrach Y, Sadedin S, Isaac W, Tuyls K, Leibo JZ	
VENUE	Proceedings of the Natl. Acad. of Sci. , in press	
TITLE	Tabula rasa agents exhibit emergent in-group favoritism	
AUTHORS	Koster R, Cunningham W, Duénez-Guzmán EA , Leibo JZ	
VENUE	NeurIPS (2023) , Competition track	
TITLE	Melting Pot Challenge	
AUTHORS	Trivedi R, Khan A, Clifton J, Hammond L, Leibo JZ, Duénez-Guzmán EA , Agapiou JP, Matyas J, Hadfield-Menell D,	
VENUE	Nature Machine Intelligence (2023): (5) ¹¹ , pp. 1181-1188	
TITLE	A social path to human-like artificial intelligence	
AUTHORS	Duénez-Guzmán EA , Sadedin S, Wang JX, McKee KR, Leibo JZ	
VENUE	ICML (2021) , oral presentation (2% of submissions)	
TITLE	Scalable evaluation of multi-agent reinforcement learning with melting pot	
AUTHORS	Leibo JZ, Duénez-Guzmán EA , Vezhnevets AS, Agapiou JP, Sunehag P, Koster R, Matyas J, Beattie C, Mordatch I, Graepel T	
VENUE	NeurIPS (2018) , best paper award (3% of submissions)	
TITLE	A Lyapunov-based approach to safe reinforcement learning	
AUTHORS	Chow Y, Nachum O, Duénez-Guzmán EA , Ghavamzadeh M	
VENUE	NeurIPS (2018)	
TITLE	Inequity aversion improves cooperation in intertemporal social dilemmas	
AUTHORS	Hughes E, Leibo JZ, Phillips M, Tuyls K, Duénez-Guzmán EA , García-Castañeda A, Dunning I, Zhu T, McKee KR, Koster R, Roff H, Graepel T	