

# EDGAR A. DUÉÑEZ-GUZMÁN

## OBJECTIVE

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

## WORK EXPERIENCE

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PERIOD	<b>July 2019 — January 2025</b>	
EMPLOYER	<b>Google Deepmind</b>	London, UK
JOB TITLE	<b>Staff Research Scientist</b>	
	Co-lead of Multi-Agent General Intelligence, advancing CoopAI research Engineering lead of Multi-Agent team Led research on combating discrimination and biases in AI systems Co-led Melting Pot: benchmark for eval. social abilities of AI; 2023 NeurIPS Melting Pot Challenge (600+ participants) Open source: GenAI agent-based modelling: Concordia	
PERIOD	<b>March 2017 — July 2019</b>	
EMPLOYER	<b>Google Deepmind</b>	Mountain View, USA
JOB TITLE	<b>Senior Research Engineer</b>	
	Launched WaveNet, the new AI voice of the Google Assistant Developed large-scale wind energy prediction improving profitability by $\approx 20\%$ Developed RL algorithms guaranteeing safety during learning	
PERIOD	<b>October 2013 — March 2017</b>	
EMPLOYER	<b>Google</b>	Mountain View, USA
JOB TITLE	<b>Senior Software Engineer</b>	
	Developed first AI-driven indexing system for Google Image Search Core member of high-profile confidential policy and legal team Revamped official interview training videos, 7M+ views	
PERIOD	<b>February 2010 — September 2013</b>	
EMPLOYER	<b>Harvard University &amp; KU Leuven</b>	Cambridge, USA & Leuven, Belgium
JOB TITLE	<b>Postdoctoral fellow</b>	
	Led research on cooperation & punishment in human and animal societies Developed automatic genetic programming of robot swarms Published widely in evolutionary biology, cooperation theory, and AI systems	

## EDUCATION

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

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## SELECTED HONOURS & AWARDS

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

## SELECTED PUBLICATIONS

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SUMMARY	<b>50+ journal and conference articles, 2500+ citations (h-index 22)</b> <a href="https://scholar.google.com/citations?user=H15wdRMAAAAJ">https://scholar.google.com/citations?user=H15wdRMAAAAJ</a>	
VENUE	<b>Proceedings of the Natl. Acad. of Sci.</b> , in press	
TITLE	<b>Perceptual interventions ameliorate statistical discrimination in learning agents</b>	
VENUE	<b>Proceedings of the Natl. Acad. of Sci.</b> , in press	
TITLE	<b>Tabula rasa agents exhibit emergent in-group favoritism</b>	
VENUE	<b>Nature Machine Intelligence</b> (2023): (5) <sup>II</sup> , pp. 1181-1188	
TITLE	<b>A social path to human-like artificial intelligence</b>	
VENUE	<b>ICML</b> (2021), oral presentation (2% of submissions)	
TITLE	<b>Scalable evaluation of multi-agent reinforcement learning with melting pot</b>	
VENUE	<b>NeurIPS</b> (2018), best paper award (3% of submissions)	
TITLE	<b>A lyapunov-based approach to safe reinforcement learning</b>	

## TEACHING & MENTORSHIP

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PERIOD	<b>2020 — Present</b>	
ACTIVITY	<b>Supervised 2 MsSc and 4 PhD DeepMind interns</b> (published at AI conferences & workshops)	
YEAR	<b>2023</b>	
ACTIVITY	<b>Co-advisor for postdoc at MIT for Melting Pot Challenge, NeurIPS 2023</b>	
PERIOD	<b>2018 — 2021</b>	
ACTIVITY	<b>Designed and facilitated the DeepMind Allyship course</b> (90%+ satisfaction rate, scaling it to a company-wide initiative)	
PERIOD	<b>2016 — Present</b>	
ACTIVITY	<b>Visiting lecturer for the SIAM</b> (Tufts, Smithsonian Institution, Oxford, and more)	
PERIOD	<b>2013 — 2017</b>	
ACTIVITY	<b>Coached 100+ engineers for Google interviews</b> (highest success rate)	
PERIOD	<b>2003 — 2009</b>	
ACTIVITY	<b>Lead and trainer of state Informatics Olympiad, Guanajuato, MX</b> (1st/31 teams)	