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 Scientist**	

Co-lead of Multi-Agent General Intelligence, advancing CoopAI research
Engineering lead of Multi-Agent team
Lead 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	**March 2017 — July 2019**	
Employer	**Google Deepmind**	Mountain View, USA
Job Title	**Senior Research Engineer**	

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	**October 2013 — March 2017**	
Employer	**Google**	Mountain View, USA
Job Title	**Senior Software Engineer**	

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	**February 2010 — September 2013**	
Employer	**Harvard University & KU Leuven**	Cambridge, USA & Leuven, Belgium
Job Title	**Postdoctoral fellow**	

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

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

R7 Handyside Street · London N1C 4DN · United Kingdom
✉ eaduenez@gmail.com   ☎ +44 (0) 20 7881 4476

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** 21**)**
	`https://scholar.google.com/citations?user=Hl5wdRMAAAAJ`

Venue	**Proceedings of the Natl. Acad. of Sci.,** in press
Title	**Perceptual interventions ameliorate statistical discrimination in learning agents**

Venue	**Proceedings of the Natl. Acad. of Sci.,** in press
Title	**Tabula rasa agents exhibit emergent in-group favoritism**

Venue	**Nature Machine Intelligence** (2023): **(5)**11, pp. 1181-1188
Title	**A social path to human-like artificial intelligence**

Venue	**ICML** (2021), oral presentation (2% of submissions)
Title	**Scalable evaluation of multi-agent reinforcement learning with melting pot**

Venue	**NeurIPS** (2018), best paper award (3% of submissions)
Title	**A lyapunov-based approach to safe reinforcement learning**

Teaching & Mentorship

Period	**2020 — Present**
Activity	**Supervised** 2 **MsSc and** 4 **PhD DeepMind interns** (published at AI conferences & workshops)

Period	**2013 — 2017**
Activity	**Coached** 100+ **engineers for Google interviews** (highest success rate)

Year	**2023**
Activity	**Co-advisor for postdoc at MIT for Melting Pot Challenge, NeurIPS 2023**

Period	**2018 — 2021**
Activity	**Designed and facilitated the DeepMind Allyship course** (90%+ satisfaction rate, scaling it to a company-wide initiative)

Period	**2016 — Present**
Activity	**Visiting lecturer for the SIAM** (Tufts, Technological University Dublin, The University of Tennessee, and more)

Period	**2003 — 2009**
Activity	**Lead and trainer of state Informatics Olympiad, Guanajuato, MX** (1st/31 teams)

R7 Handyside Street · London N1C 4DN · United Kingdom

✉ eaduenez@gmail.com   ☎ +44 (0) 20 7881 4476