

SERGIO CASAS



+1 437 772 25 03



sergiocasasromero@gmail.com



/sergio-casas

VOLUNTEERING

- 2020 · IROS conference paper review
- 2019 · **Feeding Canadian Kids** after school program
- 2016 · Android app to improve navigation of **socially impaired**
- 2014 · **Forest restoration in Lauriano, Italy**
- 2010 – 2016 · **Basketball referee**

AWARDS

- 2019, 2020 · 2x **Vector Institute for AI** research grant (\$10,000)
- 2017 · Fundació Cellex **Excellence Scholarship** (9,000 €)
- 2016 · **Winner** in SocialPoint's Recommender System **Datathon**
- 2015 · **McKinsey Atrévete** event in Lisbon, Portugal
- 2013 · **Full-ride** CFIS-UPC **scholarship** (~10,000 €)
- 2013 · CatalunyaCaixa award (**Top 0.3% university entrance exams**)
- 2012 · Baccalaureate Honors

LANGUAGES

- Spanish · Native
- English · TOEFL iBT 114/120
- Catalan · Native

CERTIFICATES

- 2016 · **IESE MBA Summer School**

HOBBIES

- Photography
- Basketball
- Guitar

EDUCATION

Ph.D. Computer Science – University of Toronto

2020 – Present · Current GPA: 4.0/4.0 · Focus on Artificial Intelligence

MSc. Computer Science – University of Toronto

2018 – 2020 · GPA: 4.0/4.0 · Focus on Artificial Intelligence

BSc. Computer Science – Universitat Politècnica de Catalunya

2013 – 2017 · Grade: 9.0/10 (Percentile 1%) · Focus on algorithms

BSc. Industrial Engineering – Universitat Politècnica de Catalunya

2012 – 2017 · Grade: 8.6/10 (Percentile 1%) · Focus on mechanics

WORK EXPERIENCE

Uber Advanced Technologies Group

- **Research Scientist II** · 03/19 – Present · Toronto, Canada
- **Research Scientist I** · 03/19 – 04/18 – 03/19 · Toronto, Canada
- **Research Intern** · 10/17 – 04/18 · Toronto, Canada

Research in Autonomous Driving: Perception, Prediction and Motion Planning systems.

Research Assistant – University of Toronto

02/17 – 08/17 · Toronto, Canada

Research in spatio-temporal reasoning for sports analytics. Worked on automatizing the NBA Play-by-Play reports. Supervised by Prof. Urtasun.

Data Analytics Consultant – Arcvi Big Data Agency

06/16 – 01/17 · Barcelona, Spain

Creation of strategy solutions using simple Machine Learning techniques. Advised multiple retail, insurance and credit companies.

Software Engineer – Psycle Interactive Ltd.

06/16 – 01/17 · Whitchurch, United Kingdom

Mobile application development and UI/UX design. Research project on document topic classification and information retrieval.

PUBLICATIONS

My **self-driving research** has been published at **top conferences** in Computer Vision and Robotics

CVPR 20
spotlight

PnPNet: End-to-End Perception and Prediction with Tracking in the Loop

M. Liang*, B. Yang*, W. Zeng, Y. Chen, R. Hu, **S. Casas**, R. Urtasun

ICRA 20
spotlight

SpAGNN: Spatially-Aware Graph Neural Networks for Relational Behavior Forecasting from Sensor Data

S. Casas, C. Gulino, R. Liao, R. Urtasun

CoRL 19
spotlight

Discrete Residual Flow for Probabilistic Pedestrian Behavior Prediction

A. Jain*, **S. Casas***, R. Liao*, Y. Xiong*, S. Feng, S. Segal, R. Urtasun

CVPR 19
oral

End-to-end Interpretable Neural Motion Planner

W. Zeng, W. Luo, S. Suo, A. Saddat, B. Yang, **S. Casas**, R. Urtasun

CoRL 18
spotlight

IntentNet: Learning to Predict Intention from Raw Sensor Data

S. Casas, W. Luo, R. Urtasun