

# DOTAN DI CASTRO

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## SUMMARY

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**Expertise:** AI R&D Managing, Phd in Reinforcement Learning and AI, Robotacist, and AI Expert;  
**Current Role:** Group and Lab Manager at Bosch-AI, Haifa, Israel. Research and Impact Manager;  
**Academics:** ~ 910 Google Scholar citations (~ 35 Journal and Conference papers in NeurIPS, ICML, ICRA, IROS, JMLR, RAL, etc.);  
**IP:** ~ 30 Patents in US, DE;  
**Community Service:** AC and Reviewer in AI leading conferences.  
**Linkedin:** <https://www.linkedin.com/in/dotan-di-castro-b0a99039/>  
**Github:** <https://github.com/dotd>

## ABOUT

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I am a **Reinforcement Learning Expert**. My main interests are building **autonomous systems** whether virtual or real (like in **manipulation robotics**) in the high and low tech industries. I like to **apply AI to solve real problems** as an **individual contributor** as well as a **manager**.

## WORK EXPERIENCE

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**Bosch AI Research: Group Manager, Robotics Lab Manager, and Site Manager** July 2018 - Present

*Mission:* Founded a group for Bosch AI Research. Implemented 3-fold mission of:

- (1) Impact on Bosch products.
- (2) Doing Research
- (3) Building IP Stack

*Responsibility:* hiring people; establishing research and IP agenda; guiding a group of 15 research scientists, engineers, and interns; Running the lab and site;

*Notable projects:* RL for Autonomous Dozer | Smart Item Picking using robotic arms | Scheduling using RL | Insertion using robotic arms | Video predictions for 2WP/4WP.

**Senior Research Scientist, Yahoo! Labs, Haifa, Israel** 2013 - 2018

Working mainly in Yahoo Mail and Ads products. Technical lead of Automatic Extraction.

**CTO Modana (Startup)** 2012 - 2013

Role: Modana developed a context aware product for mobile sensing using the smartphone.

**Research Scientist, Pulsar Investments Inc.** 2009 - 2012

Role: Research scientist in an algorithmic trading startup. Main market: CME.

**IBM Research** 2000 - 2004

Student Apprentice

## EDUCATION

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**Postdoc in EE, Technion, Israel** 2010 - 2011

Host: Prof. Shie Mannor

**PhD in EE, Technion, Israel** 2006 - 2010

Thesis: *Aspects of Actor-Critic Algorithms: Theory and Experiments*. Advisor: Prof. Ron Meir

**MSc in EE, Technion, Israel** 2004 - 2006

Thesis: *Population Behavior of Neural Networks*. Advisor: Prof. Ron Meir

**BSc in EE, Technion, Israel** 2004 - 2006

*Cum Laude*

## TECHNICAL SKILLS

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- Languages (Proficient): Python, Java, Scala
- Deep Learning frameworks: PyTorch, Keras
- Big Data frameworks: Spark, Hadoop, Docker