

# Gabriele Angeletti

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🔗 <https://github.com/blackecho>

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## Experience

**Research Engineer**, Blue Vision Labs 2018-01–Present

Design and implementation of data pipelines to analyze the behavior of complex 3D mapping and localization systems. Build and improve distributed algorithms to perform 3D mapping. Side work on experimental projects involving the use of machine learning to improve the mapping and localization systems.

**Research Engineer intern**, Blue Vision Labs 2017-08–2017-12

Involved in a project about replacing SIFT with deep learning to improve features description and matching.

Built tools to evaluate and monitor the performance of 3D mapping systems.

Contributed to the design of a data warehouse solution to efficiently store and retrieve hundreds of millions of records.

**Consultant**, 2014–2017

Involved in different projects during university, mainly in full-stack web development, web crawling, and natural language processing.

**Student**, InnovAction Lab Spring 2013

Entrepreneurship course about how to present business ideas directly to investors.

## Education

Sapienza University of Rome, 2015–2017

M.Sc. in Engineering in Artificial Intelligence and Robotics, (English Degree)

Final grade 110/110

Thesis: *Adaptive Deep Learning through Visual Domain Localization*<sup>1</sup>

Sapienza University of Rome, 2011–2014

B.Sc. in Engineering in Computer Science and Automation, (Italian Degree)

Final grade 106/110

Thesis: *Statistical analysis of mobile apps reviews to improve users' QoE*

## Engineering Skills

**Python**, proficient: SciPy ecosystem, PyTorch, TensorFlow, PySpark

**JavaScript**, proficient: ES6, TypeScript, Angular

**Golang**, some experience

**RDBMS**, proficient: PostgreSQL, MySQL, AWS RedShift

**Cloud technologies**: AWS (S3, EC2, ECS, EMR, Batch)

**Data engineering**: Spark, Airflow, Luigi

## Projects

Deep Learning TensorFlow<sup>2</sup>: Ready to use implementations of various Deep Learning

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<sup>1</sup><https://github.com/blackecho/master-thesis>

<sup>2</sup><https://github.com/blackecho/Deep-Learning-TensorFlow>

algorithms using TensorFlow.

<b>Publications</b>	G. Angeletti, T. Tommasi, B. Caputo. "Adaptive Deep Learning through Visual Domain Localization". In: <i>IEEE International Conference on Robotics and Automation (ICRA)</i> (2018) <sup>3</sup>
<b>Languages</b>	Italian, native speaker English, fluent spoken and written skills
<b>Honors</b>	Ranked 13 / 2189 among Python github users in Italy by <sup>4</sup> 2018 Winner of Accenture Digital Hackathon Rome 2016 NASA International SpaceApps Challenge 2015 Local winner (Rome) & Global winner for category Galactic Impact Project: CROPP—Cultures Risks Observation and Prevention Platform <sup>5</sup>
<b>Activities &amp; Hobbies</b>	Applications of machine learning to visual and musical arts Open source projects Data visualization

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<sup>3</sup><https://arxiv.org/abs/1802.08833>

<sup>4</sup><http://git-awards.com/>

<sup>5</sup><https://2015.spaceappschallenge.org/award/>