

# Sebastian Bertoli

## Data Science Graduate

**Sebastian Bertoli**

1095 MS Amsterdam

+31 626 549 \*\*\*

bertoli.sebastian@gmail.com

<http://www.sebastianbertoli.net>

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### Profile

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Data science graduate and machine learning enthusiast. Worked both in academia and the media industry. Passionate about the use of new media in education. Cycling aficionado, autodidact and linguaphile. Seeking junior position within the intersection of technology and higher education.

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### Experience

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#### Teaching Assistant in Python programming / Tilburg University

6 months | February 2016 - July 2016 | Tilburg

- Developed IPython notebooks teaching students the fundamentals of data visualisation in Python.
- Supervised lab sessions and improved teaching effectiveness by reducing head teacher workload.

#### Assistant Researcher, Analyst / Hogeschool van Amsterdam

3 months | August 2015 - October 2015 | Amsterdam

- Collaborated on research project "Smart Citizens. Exploring the tools of the urban bottom-up movement."
- Collected and analysed social media data of Amsterdam's citizen communities.

#### Creative Retoucher & IT / Recom Digital Image Production

3 years | September 2011 - September 2014 | London

- Part of an award-winning team of digital artists specialised in creating computer generated imagery for the automobile industry.
- Wrote technical manuals facilitating company-wide knowledge sharing.
- Improved and maintained technical equipment allowing digital operators to focus more closely on their creative work.
- Worked on the "Volkswagen Unbelievable Value" campaign, finalist of the "One Eyeland Photography Awards".

#### Owner / 'S' Creative Retouching

2 years | September 2009 - December 2011 | Milan

- Greatly facilitated photographer's post-production workflow by offering novel in-house retouching services and consultancy.
- Planned and delivered the post-production for some of the biggest advertisers such as Vodafone and Deutsche Bank.

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## Education

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### MSc Artificial Intelligence / University of Amsterdam

1 year | September 2016 - Current | Amsterdam

- Expanded machine learning knowledge through theoretical study and writing implementations in Python.
- Built information retrieval ranking models (TF-IDF, BM25, etc.) and undertook course in data mining.

### MSc Data Science: Business & Governance / Tilburg University

2 years | September 2015 - June 2017 | Tilburg

- MSc thesis: *Automatic classification of vessels using historic AIS navigation data*.
- Took additional courses in data mining, data protection, law and programming. Wrote privacy assessment of Google Photos.
- Consistently achieved strong grades (GPA > 8.0).

### rMA Media Studies / University of Amsterdam

1 year | September 2014 - June 2015 (48 Ects) | Amsterdam

- Co-developed the concept for a university-wide interdisciplinary knowledge-sharing and collaboration platform called the "UvA Research Hub".
- Co-authored 60-page study on Amsterdam's Open Data culture revealing a vibrant but narrow-focused urban Open Data culture.

### BA Media & Cultural Studies / University of the Arts London

3 years | September 2011 - June 2014 | London

- BA thesis: *Massive Open Online Courses in the UK: A critical analysis of the driving forces behind the e-learning phenomenon*.
- Produced and directed shortfilm exploring the relationship between technology and alienation.

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## Personal Projects

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### Classifying vessels using historical AIS data / Master Thesis

<https://github.com/sebastianbertoli/UvT-Thesis/>

Built a machine learning model using density estimation methods as well as semantic knowledge in order to automatically classify ships based on their historical navigation data.

### "Does technology alienate us?" / Shortfilm

<https://vimeo.com/60400737>

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## Tools

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**Languages:** Python, R, SQL, Latex.

**Libraries:** Scikit-learn, Pandas, Matplotlib, ggplot2, tidyverse.

**Software:** Tableau, RapidMiner, Git, Illustrator, Photoshop, Office.

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## Languages

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**German:** *native*

**Italian:** *native*

**English:** *full working proficiency (C2)*

**Dutch:** *intermediate (B1)*