

# Andrea Zugarini

30 Oct 1991

## Education

- 2017-Current PhD student, *Smart Computing*, Università degli Studi di Firenze.
- 2014–2017 Master degree, Computer and Automation Engineering, *University of Siena - Dipartimento di Ingegneria dell'Informazione e Scienze Matematiche*, 110/110 cum laude.
- 2010–2014 Bachelor degree, School of Software Engineering, *Università degli Studi di Firenze - Dipartimento di Ingegneria*, 104/110.
- 2005-2010 Secondary school diploma: Scientific Certificate, *Liceo Scientifico Italo Calvino*, Città della pieve (PG), Italy, 100/100.

## Work experiences

- Jun 2016 - Oct 2017 Internship as software engineer, QuestIT S.r.l. (SI) ITALY, Backend developer of chatbots applications.
- Jun 2014 - Dec 2014 Internship as web designer and developer, Frosini Pietre S.r.l. (FI) ITALY, Development of the Company web site.

## Fellowships

- May 2016 - Apr 2017 Research fellowship, *Università degli Studi di Siena*, Neural Nets for Conversational Agents.

## Awards

- 20 Jun 2017 Winner of the student merit award of *Computer and Automation Engineering Master degree* of academic year 2015–2016, Università degli Studi di Siena.

## Software skills

- Very Basic R
- Basic DRUPAL
- Intermediate MATLAB, L<sup>A</sup>T<sub>E</sub>X, SLURM, OPENCV, C++, GIT
- Good JAVA, PYTHON, TENSORFLOW, JAVASCRIPT, LINUX,
- Very Good TORCH/LUA , HTML, CSS, PHP, WORDPRESS,SQL

## Spoken languages

- Italian Mother Tongue
- English Proficient

## Additional informations

Academic projects Automatic Bacteria identification and counting, *Image Processing class*, image processing and machine learning approach to recognize and count bacteria species in Petri dishes (C++, OPENCV, TORCH).

Towards an integrated interactive database for the search of stratification biomarkers in Alkaptonuria, *Bioinformatic class*.

Conferences Cicaloni V , Rossi A , Zazzeri M , Zugarini A , Santucci A , Bernini A , Spiga O, "Towards an integrated interactive database for the search of stratification biomarkers in Alkaptonuria", *fifth edition of "Giornata Toscana di Bioinformatica e Systems Biology"*, Firenze, Italy, 28 ottobre 2016.

Cicaloni V , Rossi A , Zazzeri M , Zugarini A , Santucci A , Bernini A , Spiga O, "Towards an integrated interactive database for the search of stratification biomarkers in Alkaptonuria", *13th Annual Meeting of the Bioinformatics Italian Society, University of Salerno, Italy*, June 15-17, 2016.

Technical reports Giannini, F, Laveglia, V, Rossi, A, Zanca, D, Zugarini A, "Neural Networks for Beginners. A fast implementation in Matlab, Torch, TensorFlow", *arXiv preprint arXiv:1703.05298 (2017)*. <https://arxiv.org/pdf/1703.05298.pdf>.

Cicaloni V , Rossi A , Zazzeri M , Zugarini A , Santucci A , Bernini A , Spiga O, "Towards an integrated interactive database for the search of stratification biomarkers in Alkaptonuria", *PeerJ Preprints doi.org/10.7287/peerj.preprints.2174v1*, 28 Jun 2016.

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