

Alket Cecaj

QUALIFICATIONS PROFILE

A critical thinker, passionate about solving mathematical problems with data and excited about working in a research-oriented and innovative environment in a Computer Science postdoc fellow / Data Scientist role

Core Technologies:

Environments:

UNIX, Windows 7/8/8.1/10

Tools: Java, Python, Keras, scikit-learn, SQL, R programming, Git

EDUCATION

Doctor of Philosophy in Industrial Innovation Engineering / Computer Science – 01/2013 - 03/2016

University of Modena, Reggio Emilia, Italy

Thesis: Integration of Geo-Referenced Data and Spatio Temporal Information

License to practise according to Italian Professional Law 2013

(Abilitazione alla professione 10/2013)

Master of Science in Management Engineering ICT - 10/2009- 04/2012

University of Modena, Reggio Emilia, Italy

Non-Degree Exchange Student - 2010

VIA University College, Horsens, Denmark

Bachelor of Science in Global Business Engineering - 10/2004- 09/2009

University of Modena, Reggio Emilia, Italy

EXPERIENCE HIGHLIGHTS

University of Modena, Reggio Emilia, Italy

Research Assistant, 8/2016 – I currently work here

Technologies: R Programming, Python, Java, Javascript, MongoDB, MySQL, GIS

In conjunction of a doctorate degree, conducted research on computational social science and on smart city/smart mobility applications. Developed know-how in statistical modeling and machine learning/deep learning algorithms and inference, spatio-temporal analysis, data visualization using GIS systems like Google Earth. Finally, I worked closely with lead researchers, product management, design, and academic stakeholders to develop models, simulations, reports, requirements, and tests from a myriad of data sources in order to inform business, regulatory, clinical, and product development activities.

- Designed and developed a mobile application using Java Spring(back-end) and Javascript/jQuery mobile.
- Implement algorithms for spatio-temporal matching on data, expanding existing data mining techniques.
- Implemented forecasting models and dashboards for a support system for smart city data governance

University of Modena, Reggio Emilia, Italy

Teaching Assistant, 10/2013 – 2019

Technologies: Java programming, Javascript, MySQL, Eclipse IDE

Facilitated instructional materials, labs, inventories etc. in accordance with curriculum requirements. Supported the professor with class instruction while offering tutoring mentor services to students.

- Planned and coordinated practical exercises for the programming lab, creating relevant teaching content.
- Mentored a number of Bachelor and Master students, offering guidance and tutorship with their thesis.

COMMUNICATION SKILLS

During my career, I have been working with industry experts and managers in different fields and international context. Fluent in English, Italian, Albanian. Working knowledge of Greek language.

PROJECTS

- LUME Planner App: an application designed to map thematic paths in various Italian cities. <https://play.google.com/store/apps/details?id=it.unimore.morselli.lume&hl=it>
- POLIS-EYE POLIcy Support systEm for smart citY data governancE - POLIS-EYE

PUBLICATIONS

- Nicola Bicocchi, Alket Cecaj, Damiano Fontana, Marco Mamei, Andrea Sassi, Franco Zambonelli : **Collective Awareness for Human ICT Collaboration in Smart Cities**. IEEE WETICE International conference on state-of-the art research in enabling technologies for collaboration 17-20 June 2013.
- Alket Cecaj, Marco Mamei, Nicola Bicocchi : **Re-Identification of Anonymized CDR Datasets Using Social Network Data**. IEEE Percom International conference on Pervasive Computing and Communications. Budapest, Hungary 24-28 March, 2014.
- Alket Cecaj, Marco Mamei, Franco Zambonelli : **Re-Identification and Information Fusion Between Anonymized CDR and Social Network Data**. "Journal of ambient Intelligence and Humanized Computing", Issue 1, Vol. 7, pp 83 - 96. Year 2015.
- Alket Cecaj, Marco Mamei : **Data Fusion for City Life Event Detection**. "Journal of Ambient Intelligence and Humanized Computing", pp1-15, Year 2016
- Alket Cecaj, Marco Mamei : **Investigating Economic Activity Concentration Patterns of Co-agglomerations Through Association Rule Mining**. "Journal of Ambient Intelligence and Humanized Computing", Year 2019
- Alket Cecaj, Marco Lippi, Marco Mamei and Franco Zambonelli: **Forecasting Crowd Distribution in Smart Cities**. IEEE 1st Workshop on IoT-Crowdsensing for Smart Cities. June 2020 Como, Italy.

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