

Simone Ivan Conte | CV

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Education

Academic Qualifications.....

- **University of St Andrews** **St Andrews, UK**
PhD Computer Science *2014 – ongoing*
- **University of St Andrews** **St Andrews, UK**
BSc (Hons) Computer Science - First Class *2010 – 2014*
Dean's List: 2010/14 (4 years)
- **United World College in Mostar** **Mostar, BiH**
IB Diploma *2008 – 2010*
Extended Essay: What are tensors and how can they applied to mechanics? (Grade: A)

Notable Projects.....

- **PhD Project (Ongoing):** *'Managing Shared Immutable Data in a Sea of Stuff'*
The focus of my PhD is to develop data and meta-data models for globally large distributed data storage systems. I have currently developed a first theoretical model and I am in the process of building a first prototype
- **BSc Dissertation** *'HaptiQ: A Haptic Device for Graph Exploration by People with Visual Disabilities'*
The HaptiQ is the first vector-based display with haptic-audio feedback for people with visual disabilities. The project is open-source and has won the the Lockheed Martin Award for Software Engineer 2014 - Scotland (given to the project that best demonstrates excellent software engineering skills)

Publications and Abstracts

- **Modelling Context and Provenance in a Sea of Stuff** *SI Conte, GNC Kirby, A Dearle, I Paterson, A O'Lenskie - Abstract in TaPP Workshop on Theory and Practice in Provenance, USENIX, 2015*
- **Depth perception with gaze-contingent depth of field** *M Mauderer, SI Conte, MA Nacenta, D Vishwanath - In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, ACM, 2014 (Honorable Mention Award)*
- **Using Gaze-contingent Depth of Field to Facilitate Depth Perception** *M Mauderer, SI Conte, MA Nacenta, D Vishwanath - i-Perception, 2014*

Experience

- **NOMAD - NMR Online Management Datastore** **St Andrews, UK**
Software Engineer (part-time) *October 2014 – ongoing*
NOMAD is a versioned controlled data management system for the Solution Phase NMR Spectroscopy technologies used by the School of Chemistry at the University of St Andrews.
 - Lead-developer after 8 months
 - Improved the performance of the back-end as well as the look-and-feel of the front-end
 - Developed the teaching workflow

- **Adobe Systems Inc.** **Edinburgh, UK; Seattle, USA**
Software Engineer Intern *July – September 2014*
 - Created a model for download/upload data batching over cloud services (USA)
 - Extended the Adobe Creative Cloud's mobile API to support batch data transfers (USA)
 - Re-wrote parts of the HTTP file transfer library of the Adobe Creative Cloud to be cross-platform (UK)

- **Adobe Systems Inc.** **Edinburgh, UK**
Software Engineer Intern *June – August 2013*
 - Worked on a generic HTTP library used by Adobe Creative Cloud
 - Developed a prototype to improve data exchange between P-to-Cloud and P2P
 - Worked closely with multiple teams in order to integrate different products

- **University of St Andrews** **St Andrews, UK**
Research Assistant Intern *September – December 2012*
 - Continued to research gaze contingent displays
 - Designed and coded experiments as well as analysed data from previous studies

- **University of St Andrews - (SACHI, PSYCS Scholarship)** **St Andrews, UK**
Research Assistant Intern *February – June 2012*
 - Researched gaze contingent displays
 - Co-leader of the project with the supervisor. I designed and coded an experiment to compare user experience when using normal and gaze contingent displays
 - The project exposed me to research in computing for the first time. I also learned about vision perception and how different visualisation techniques can be used to increase the user's experience

Technical and Personal skills

- **Programming Languages**
Proficient in: C/C++ and Java
Good in: Python, Javascript, C#, Objective-C
Basic knowledge of: Go, Haskell, Matlab
- **Databases**
MySQL, SQLite, Cassandra, MongoDB
- **Systems, Tools and Other Skills**
Win/*NIX systems, Git/Mercurial/Perforce, R, OpenGL, 3D Prototyping
- **Industry Software Skills:**
XP, Scrum, Agile, TTD, Pair Programming, Code-reviewing

Interests and extra-curricular activity

- Academic interests: distributed systems, distributed data, semantic web, scientific data management, provenance
- University extra-activities
 - Marked coursework for Software Engineering, Artificial Intelligence, Advanced Java, Computer Graphics
 - Run a 2-hour workshop on good coding practices
 - Taught basic Java and Robocode during visiting days
- Main organizer of the event PAC'15 (non-profit)- <http://pac15.github.io/>. The aim of the event was to encourage young innovators and startups to share their ideas in Sicily, Italy. We managed to bring together relevant keynote speakers, tech-companies, startups and over 150 computer science enthusiasts for a two-day interactive and networking event
- Selected high-school pupils for the United World College in 2010 (Regional and National level)
- President of the Italian Society at the University of St Andrews
- Co-founder of the Tour de Granitas in Sicily, Italy (2010-2013)
- Currently writing a book about a girl and her adventurous life. I also enjoy photography and football
- **Languages:** Italian (native), English (fluent)

References

- Alan Dearle - alan.dearle@st-andrews.ac.uk
- Adrian O'Lenkie - aolenski@adobe.com