

# Sarah Wassermann

Birth date: 17.04.1993  
Nationality: Luxembourgish  
Civil status: Single

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## EDUCATIONAL BACKGROUND

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*Up-to-date:* **Master's degree in Computer Science**  
**Université de Liège**

- Activities:
  - Conducting research in the area of network measurements under the supervision of Dr. Pedro Casas
  - student representative during the academic year 2015 – 2016

*2012 - 2015:* **Bachelor's degree in Computer Science**  
**Université de Liège**

- Grade: cum laude (GPA: 14,9 / 20)
- Ranked among the top 3 students during my entire bachelor's degree
  - 2<sup>nd</sup> out of 50 students in my first year
  - 1<sup>st</sup> out of 10 students in my second year
  - 3<sup>rd</sup> out of 9 students in my third year
- Activities:
  - student representative during the academic years 2013 – 2014 and 2014 – 2015
  - member of the faculty council during the academic years 2013 – 2014 and 2014 – 2015

*July 2012:* **General Certificate of Secondary Education**

- Modern Education: Subject area Mathematics – Informatics
  - Grade: excellent (GPA : 52/60)
  - Received the “best student prize” for having the highest GPA of my class
  - Ranked in top 1.3% of the Grand Duchy of Luxembourg
- Lycée Michel Rodange Luxembourg**

*2005 – 2012:* **High school**

- Received the “best student prize” in all high school classes from 2005 to 2009

*Coursera:*

- *An Introduction to Interactive Programming in Python*
  - **with distinction (score: 99.6%)**
- *Image and video processing: From Mars to Hollywood with a stop at the hospital*
  - **with distinction (score: 100%)**
- *Einführung in Computer Vision (score: 65.5%)*
- *Machine Learning*
  - **with distinction (score: 100%)**

## TEACHING ASSISTANT

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*Fall 2013 and fall 2014:*

- Student instructor for *Introduction to Computer Programming*, 1<sup>st</sup> year course in computer science (course taught by Prof. Benoit Donnet)
- Recipient of the Pisart Grant for pedagogical support

## RESEARCH EXPERIENCE

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*July – Sept. 2016:*

**Northwestern University (NU)**

- Visiting Pre-Doctoral Fellow in the AquaLab under the supervision of Prof. Fabian E. Bustamante and John Rula
- Subject: Anycast-based Content Distribution in Cellular Networks

*July – Sept. 2015:*

**Forschungszentrum Telekommunikation Wien (FTW)**

- Research internship in the context of the FP7 ICT European Research Project mPlane
- Subject: Towards DisNETPerf: a Distributed Internet Paths Performance Analyzer  
Geo and topology-based location of probes at the Internet scale, relying on the well-known RIPE Atlas distributed active measurements platform. Conception and development of DisNETPerf, an Internet-scale measurement framework to track the performance of Internet paths, relying on distributed probes' location and active measurements.
- Supervisor: Dr. Pedro Casas

*July 2014:*

**Laboratoire d'Informatique de Paris 6 (LIP6)**

- Development of a generic ping tool based on libparistraceroute which can handle IPv4, IPv6 and TCP, UDP, ICMP probes
- Extension of the libparistraceroute library
- Supervisors: Prof. Timur Friedman, Dr. Marc-Olivier Buob and Dr. Jordan Augé

## WORK EXPERIENCE

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- Up to date:*                   **Graphic designer at the IEEE student branch Liège**  
Design of flyers for events organized by the student branch
- 2013 – 2015:*               **IT Coordinator at BEST – Board of European Students of Technology**  
This task involves webdesign and web development
- Event Organizer at BEST – Board of European Students of Technology**  
Organizer of events in collaboration with IEEE
- Talk about quantum computers given by Dr. André Hautot at Université de Liège, February 11<sup>th</sup> and 12<sup>th</sup>, 2014

## PUBLICATIONS

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### Extended abstracts

- ***“Towards DisNETPerf: a Distributed Internet Paths Performance Analyzer”***  
S. Wassermann, P. Casas, B. Donnet  
in Proceedings of the ACM CoNEXT Student Workshop, Heidelberg, Germany, 2015

### Conference papers

- ***“On the Analysis of Internet Paths with DisNETPerf, a Distributed Paths Performance Analyzer”***  
S. Wassermann, P. Casas, B. Donnet, G. Leduc, M. Mellia  
to appear in Proceedings of IEEE WNM, Dubai, United Arab Emirates, 2016

### Journals

- ***“Unveiling Network and Service Performance Degradation in the Wild with mPlane”***  
P. Casas, P. Fiadino, S. Wassermann, S. Traverso, A. D'Alconzo, E. Tego, F. Matera, M. Mellia  
IEEE Communications Magazine, Network Testing Series, 2016, issue 3

## ATTENDED PHD SCHOOLS

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- April 2016:*               **6<sup>th</sup> PhD School on Traffic Monitoring and Analysis (TMA)**, Louvain-la-Neuve, Belgium

## MEMBERSHIPS

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- Student member of ACM
- Member of the IEEE student branch at Université de Liège
  - Participation in IEEEExtreme 8.0

## LANGUAGES

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*Luxembourgish:* mother tongue  
*German:* fluently spoken and written  
*French:* fluently spoken and written  
*English:* fluently spoken and written

## SKILLS

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**Programming languages:** C, C++, C#, Python, Java, Scheme  
(also concurrent programming in C, C++, C# and Java)  
**Web Publishing:** HTML, CSS  
**Software Development Kits:** Android SDK (Java), OpenGL (C/C++), GTK+ (C/C++), Win32 SDK (C/C++)  
**Operating Systems:** Microsoft Windows, Linux  
**Development environment:** Microsoft Visual Studio (Ultimate), PyCharm, Eclipse  
**Other Software:** Adobe Photoshop, Adobe Fireworks, MathWorks MATLAB, Maxon Cinema 4D, Microsoft Word, Microsoft PowerPoint

## PERSONALITY

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hard worker, results driven, detail minded, self-confident

## MAIN INTERESTS

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travelling, reading, programming, listening to music, playing the piano, graphic design, video games

## ADDITIONAL HONORS AND AWARDS

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*October 2015:* Travel grant at ACM CoNEXT 2015, Heidelberg, Germany  
*February 2016:* Travel grant at TMA PhD School 2016, Louvain-la-Neuve

## REFERENCES

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### **Prof. Dr. Benoit Donnet**

Université de Liège

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**Prof. Dr. Françoise Bastin**

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