

HUBER FLORES

Place of birth: Guatemala, Guatemala City.

Nationality: Guatemalan.

Mobile: +372 56090142.

E-mail: huber.flores@helsinki.fi

Homepage: <http://huberflores.com/>



ACADEMIC POSITIONS

January 2017 – Date

Position: Post-doctoral Research Scientist

- University of Helsinki, Finland.

(Grant awarded for 3 years. Research proposal selected from 228 candidates)

September 2015 – December 2016

Position: Post-doctoral Research Scientist

- University of Oulu, Finland.

ACADEMIC CREDENTIALS

August 2011 – September 2015

Degree: PhD in Computer Science

- University of Tartu, Estonia

- The Hong Kong University of Science and Technology (PhD visiting student)

Thesis: *Service-oriented and Evidence-aware Mobile Cloud Computing*

Graduation year: 2015.

August 2009 – June 2011

Degree: MSc in Software Engineering

(Jointly university program),

- University of Tartu, Estonia

- Tallinn University of Technology, Estonia

Thesis: *Mobile Cloud Middleware*

Graduation year: 2011.

January 2003 – November 2008

Degree: BEng in Computer Science

(1st graduated from his class)

- University of San Carlos of Guatemala, Guatemala.

Thesis: *Ubiquitous Collaborative Learning*

Graduation year: 2008

INDUSTRIAL EXPERIENCE

- Entrepreneur** 2013 - Date
In-mobile
<http://huberflores.com/in-mobile.html>
Activities: project management and development
- Software developer & researcher** 2012 - 2013
FP7 REMICS – University of Tartu
Tartu, Estonia
<http://remics.eu/>
Activities: SOA cloud-based development and cloud performance measurement
- Junior researcher** 2010 – 2011
ELIKO (Competence Center in Electronics, Information and Communication Technologies)
Tallinn, Estonia
<http://www.eliko.ee/>
Activities: mobile application development, analysis of sensor data (e.g. accelerometer) and real-time databases.
- Junior researcher** 2009 – 2010
STACC (Software Technology and Application Competence Center)
Tallinn, Estonia
<http://www.stacc.ee/>
Activities: development of tools for syntactic and lexical analysis.

TEACHING EXPERIENCE

University of Oulu, Finland

Teaching assistant and guest lecturer

Department of Computer Science and Engineering
521152S Applied computing project II (Fall 2015/2016)

University of Tartu, Estonia

Teaching assistant

Institute of Mathematics and Computer Science
MTAT.03.138 Software Projects (Fall 2015)
MTAT.03.280 Mobile and Cloud Computing Seminar (Spring 2013/2014) (Fall 2013/2014)
MTAT.03.262 Mobile Application Development (Fall 2011/2012/2013/2014)
MTAT.03.266 Mobile Application Development, Project (Spring 2012/2013/2014, 2015)
(Fall 2012/2013)

University of San Carlos of Guatemala, Guatemala

Lecturer

Department of Computer Science
Computer Networks I (Fall 2008) (Spring 2009)
Simulation of Computational Systems I (Fall 2008) (Spring 2009)

Artificial Intelligence (Fall 2008) (Spring 2009)

University of San Carlos of Guatemala, Guatemala

Teaching assistant

Department of Mathematics

Discrete Mathematics (Fall 2007)

Differential Calculus (Fall 2007)

Department of Computer Science

Computer Networks II (Spring 2006/2007) (Fall 2007)

PUBLICATIONS (selection)

All my publications are available from my website (<http://huberflores.com/publications.html>) or my [Google scholar profile](#)

- **H. Flores**, P. Hui, P. Nurmi, E. Lagerspetz, S. Tarkoma, J. Manner, V. Kostakos, Y. Li, X. Su: *Evidence-aware Mobile Computational Offloading*, IEEE Transactions on Mobile Computing, 2017.
- **H. Flores**, X. Su, V. Kostakos, J. Rieki, E. Lagerspetz, S. Tarkoma, P. Hui, Y. Li, J. Manner: *Modeling Mobile Code Acceleration in the Cloud*, In Proceedings of the Annual IEEE International Conference on Distributed Computing Systems (ICDCS 2017), Atlanta, GA, USA, June 5-8, 2017. (*Acceptance rate 16.9%*)
- **H. Flores**, R. Sharma, D. Ferreira, V. Kostakos, J. Manner, S. Tarkoma, P. Hui, Y. Li: *Social-aware Hybrid Mobile Offloading*, Pervasive and Mobile Computing Journal, 2016.
- **H. Flores**, P. Hui, S. Tarkoma, Y. Li, S. N. Srirama, R. Buyya: *Mobile Code Offloading: From Concept to Practice and Beyond*, IEEE Communications, vol. 53, pages 80-88, 2015.
- **H. Flores**, S. N. Srirama: *Mobile Cloud Middleware*, Journal of Systems and Software, vol. 92, pp. 82-94, 2014.
- **H. Flores**, S. N. Srirama: *Mobile Code Offloading: Should be a Local Decision or a Global Inference?*, In Proceedings of MobiSys 2013 (Taipei, Taiwan), June 25-28, 2013.
- **H. Flores**, S. N. Srirama: *Adaptive Code Offloading for Mobile Cloud Applications: Exploiting Fuzzy Sets and Evidence-based Learning*, In Proceedings of ACM MobiSys: MCS Workshop (Taipei, Taiwan), June 25-28, 2013.

TALKS

16. *"Social-aware Cross Device Sensing for Mobile Application Diffusion"*, Lancaster University, InfoLab21, Lancaster, UK, February 13-14, 2017.
15. *"Social-aware Hybrid Mobile Offloading"*, UbiComp 2016: 3rd Helsinki-HKUST-Tsinghua Workshop, Helsinki, Finland, June 24-27, 2016.
14. *"Social-aware D2D Communication: A Contribution for Edge and Fog Computing"*, UbiComp 2016: WMSW Workshop, September 7-11, 2016.
13. *"Service-oriented and Evidence-aware Mobile Cloud Computing"*, University of Tartu, Estonia, November 20, 2015.

12. **"Mobile Cloud Computing"**, University of Oulu, Finland, October 1, 2015.
11. **"Mobile Code Offloading: From Concept to Practice and Beyond"**, 1st Helsinki-HKUST-Tsinghua Workshop on Cloud and Mobile Computing, Kowloon, Hong Kong, July 02-04, 2014.
10. **"Computational Offloading or Data Binding? Bridging the Cloud Infrastructure to the Proximity of the Mobile User"**, Mobile Cloud 2014, Oxford, UK, April 8-11, 2014.
9. **"Adaptive Code Offloading for Mobile Cloud Applications: Exploiting Fuzzy Sets and Evidence-based Learning"**, Mobisys 2013: MCS Workshop, Taipei, Taiwan, June 25-28, 2013.
8. **"Mobile Cloud Messaging supported by XMPP primitives"**, Mobisys 2013: MCS Workshop, Taipei, Taiwan, June 25-28, 2013.
7. **"Performance testing of SOA cloud-based applications"**, FP7 REMICS, Palma de Mallorca, Spain, November 24-27, 2012.
6. **"Mobile Cloud Application Development"**, Yıldız Technical University, Istanbul, Turkey, October 08-09, 2012.
5. **"Mobile Cloud Application Development"**, Caucasus University and Tbilisi State University, Tbilisi, Georgia. April 03-04, 2012.
4. **"Bakabs: Managing Load of Cloud-based Web Applications from Mobiles"**, iiWAS 2011, Ho Chi Minh, Vietnam, December 05-07, 2011.
3. **"Zompopo: Mobile Calendar Prediction based on Human Activities Recognition using the Accelerometer and Cloud Services"**, NGMAST 2011, Cardiff, UK, September 14-16, 2011.
2. **"A Generic Middleware Framework for Handling Process Intensive Hybrid Cloud Services from Mobiles"**, MoMM-2011, Ho Chi Minh, Vietnam, December 05-07, 2011.
1. **"Mobile Cloud Middleware"**, University of Rostock, Rostock, Germany, May 26, 2011

PARTICIPATION IN RESEARCH PROJECTS

- [FP7 project REMICS](#) – Reuse and Migration of legacy applications to Interoperable Cloud Services
 - *Technical reports*
 - [Performance testing of cloud-based applications](#)
 - REMICS principles for OLTP/OLAP migration to cloud

PROFESSIONAL ASSOCIATIONS

- ACM student member (ACM SIGMOBILE)
- IEEE student member
- [Guatemalan Association of Engineers](#), Member No.9691,

AWARDS AND HONORS

- [Postdoctoral Research Grant \(2+1 years\)](#) for conducting research at Kumpula Science Campus, University of Helsinki (2017).
- [Dora 6 grant / students' semester abroad](#), Archimedes Foundation in Collaboration with the Estonian Ministry of Education and Research (2014)
- [ACM SIGMOBILE Student Travel Grant](#), the 11th International Conference on Mobile System, Applications and Services (MobiSys 2013)

- (2 years in a row) Tiigriülikooli vastus stipendiumitaotlusele/[Tiger University Scholarship](#) (2012/2013) and (2013/2014)
 - *This competition involves all Estonian Universities. The stipend is given just to the five top young researchers from the overall country.*
- [European Social Fund's Doctoral Studies and Internationalisation Programme DoRa](#) (2011/2015)
- (2 times) Participation of Young Scientists in International Knowledge Exchange ([EST Dora 8 Scholarship](#)), Archimedes Foundation in collaboration with the Estonian Ministry of Education and Research (2011 - 2012)
- [Baltic Summer School Stipend](#), German Academic Exchange Service (DAAD), University of Rostock/Germany and Kaunas University of Technology/Lithuania (2010)
- [Software Engineering Fellowship for Master's Studies](#), Institute of Mathematics and Computer Science, University of Tartu (2009/2011)

RESEARCH SUPERVISION

- It's my pleasure to have supervised up to 12 graduation theses from Master and Bachelor students from University of Tartu (<http://huberflores.com/mentor.html>)

COMMUNITY SERVICE

- It's my pleasure to be reviewer from the following journal/conferences: *IEEE Transactions on Mobile Computing, Journal of Systems and Software, Computer and Electrical Engineering, Transactions on Emerging Telecommunications Technologies, Simulation Modelling Practice and Theory, Journal of Network and Computer Applications.*

PERSONAL SKILLS

Operating Systems

- Any Linux-based OS (preferable Debian distributions)

Programming Languages

- Java, Python, C, C++, PHP, Javascript, Erlang, Clojure

Frameworks

- Maven, SVN, Git, Heroku, Jenkins, Selenium, Gradle, Amazon AWS.

Other development environments

- R, MathLab, Latex

Languages

- Spanish Native
- English Proficient (speaking, writing and reading)
- Estonian Basic (reading and writing)
- Japanese Basic (reading and writing)

PERSONAL REFERENCES

If you want to know more about me, please feel free to contact any of my personal references. They will be happy to provide you more information.

Prof. Marlon Dumas

Software engineering Group - University of Tartu
Institute of Computer Science
J. Liivi 2, Tartu, Estonia
E-mail: marlon.dumas@ut.ee

Prof. Pan Hui

HKUST-DT System and Media Lab - The Hong Kong University of Science and Technology
Department of Engineering and Computer Science
Clear Water Bay, Kowloon, Hong Kong
E-mail: panhui@cse.ust.hk

Prof. Sasu Tarkoma

Department of Computer Science, University of Helsinki
Tietojenkäsittelytieteen laitos PL 68 (Gustaf Hällströmin katu 2b) 00014 HELSINGIN YLIOPISTO
E-mail: sasu.tarkoma@helsinki.fi

Prof. Yong Li

Department of Electronic Engineering - Tsinghua University
Rohm Building 10-202, Tsinghua University, Beijing, 100084, China.
E-mail: liyong07@tsinghua.edu.cn

Prof. Vassilis Kostakos

Department of Computer Science Engineering, UBICOMP – University of Oulu
Erkki Koiso-Kanttilan katu 3, door E, University of Oulu, Fi-90014, Finland.
E-mail: vassilis@oulu.fi