Curriculum Vitae

Carmen Torres López

ctorresl@vub.be

WORK EXPERIENCE

2021- Present	**Postdoctoral researcher at Software Languages Lab**. Vrije Universiteit Brussel, Brussels, Belgium.
2016 - 2021	**PhD candidate at Software Languages Lab**. Vrije Universiteit Brussel, Brussels, Belgium.
2012 – 2015	**Developer and team leader**. Desoft Enterprise, Holguín, Cuba. Development of Java Web applications for service management.
2010 – 2012	**Developer and researcher.** Desoft Enterprise, Holguín, Cuba. Development of Java based application framework for Management Systems.
2009 – 2010	**Member of the Research Group of Distributed Systems (RGDS).** University of Holguín, Cuba. Experience as researcher and developer of Collaborative Information Retrieval Systems.

EDUCATION

2016 – 2021	**PhD of Computer Science,** Vrije Universiteit Brussel, Brussels, Belgium. **PhD thesis:** Advanced Debugging Techniques to Handle Concurrency Bugs in Actor-based Programs.
2013 – 2016	**Master of Science degree in Computer Science**, Central University of Las Villas, Cuba. **Master thesis**: Topic Segmentation and Topic Detection focus in Opinion Mining.
2005 – 2010	**Bachelor of Science degree in Computing Engineering** (Summa Cum Laude), University of Holguín, Cuba. **Bacherlor thesis:** COSME, NetBeans IDE Extensions for Collaborative Source Code Search.

PROGRAMMING LANGUAGES

Java (expert), SOMns (proficient), PLT-Redex/Scheme (prior experience), SQL (prior experience), HTML-5 (prior experience), CSS3 (prior experience), TypeScript (prior experience)

SOFTWARE METHODOLOGIES

Unified Modeling Language (expert), Agile methodologies (prior experience)

LANGUAGES

Spanish (Native language), English (Proficient level), French (Beginner level), Dutch (Beginner level)

MAIN PUBLICATIONS

- **"Multiverse Debugging: Non-deterministic Debugging for Non-deterministic Programs."**, Torres Lopez, C., Gurdeep Singh, R., Marr, S., Gonzalez Boix, E. & Scholliers, C. (2019), In '33rd European Conference on Object-Oriented Programming', Schloss Dagstuhl--Leibniz-Zentrum fuer Informatik, pp. 27:1--27:30.
- **"A Study of Concurrency Bugs and Advanced Development Support for Actor-based Programs."**, Torres Lopez, C., Marr, S., Gonzalez Boix, E., & Mossenbock, H. (2018), In Programming with Actors - State-of-the-Art and Research Perspectives (Vol. LNCS 10789, pp. 155-185). Springer.
- **"Advanced Debugging Techniques to Identify Concurrency Bugs in Actor-based Programs."**, Torres Lopez, C. (2017), In Proceeding SPLASH Companion 2017 Proceedings Companion of the 2017 ACM SIGPLAN International Conference on Systems, Programming, Languages, and Applications: Software for Humanity (pp. 13-15). Association for Computing Machinery (ACM).
- **"A principled approach towards debugging communicating event-loops."**, Torres Lopez, C., Gonzalez Boix, E., Scholliers, C., Marr, S., & Mossenbock, H. (2017), In Proceeding AGERE 2017 Proceedings of the 7th ACM SIGPLAN International Workshop on Programming Based on Actors, Agents, and Decentralized Control (pp. 41-49). Association for Computing Machinery (ACM).
- **"Topic segmentation and detection in opinion texts"**, Torres Lopez, C., Arco García, L. (2016) International Conference in Computer Science and Informatics, CICCI 2016.
- **"Models for textual representation**", Torres Lopez, C., Arco García, L. (2015) ISBN: 978-959-312-117-0. "Samuel Feijó" Editorial, University of Las Villas, Cuba.
- **"Topic detection"**, Torres Lopez, C., Arco García, L. (2015) ISBN: 978-959-312-119-4. "Samuel Feijó" Editorial, University of Las Villas, Cuba.
- **"Topic segmentation"**, Torres Lopez, C., Arco García, L. (2015) ISBN 978-959-312-164-4. "Samuel Feijó" Editorial, University of Las Villas, Cuba.
- **"Integration of topic detection techniques to PosNeg Opinion"**, Torres Lopez, C., Amores Fernández M., Arco García, L. (2015) International Congress of Computation and Mathematic, Compumat 2015. ISBN: 978-959-236-036-0.
- "**NetBeans plugin for collaborative code search**", Fernández-Luna, J., Huete, J., Pérez-Vázquez, R., Rodríguez-Cano, J., Torres López, C. (2011). II Event International of Mathematics, Physics and Informatics in XXI century. FIMAT, 2011, ISBN: 978-959-18-0702-1.