

# Mohamed ATURBAN

## CONTACT INFORMATION

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## EDUCATION

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AUG 2012 - present	Ph.D. Student in COMPUTER SCIENCE <b>Old Dominion University</b> , Norfolk, Virginia, USA <i>Joining Web Science and Digital Libraries Research Group</i> Advisor: Dr. Michele WEIGLE   Co-Advisor: Dr. Michael NELSON GPA: 4.0
MAY 2011	M.S. in COMPUTER SCIENCE <b>New Mexico State University</b> , Las Cruces, New Mexico, USA <i>Masters Project: Implementing A Workflow System For Computation-Based Scientific Experiments Using The NetBeans IDE And GlassFish Application Server</i> Advisor: Dr. Jonathan COOK GPA: 3.83
DEC 2007	GRADUATE DIPLOMA in COMPUTER SCIENCE <b>University of Tripoli</b> , Tripoli, Libya
MAY 2002	B.S. in COMPUTER SCIENCE <b>University of Tripoli</b> , Tripoli, Libya

## PUBLICATION

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M. Aturban, M. Kelly, S. Alam, J. A. Berlin, M. L. Nelson and M. C. Weigle, "ArchiveNow: Simplified, Extensible, Multi-Archive Preservation" In Proceedings of the ACM/IEEE Joint Conference on Digital Libraries (JCDL). Fort Worth, TX, June 2018

M. Aturban, M. L. Nelson and M. C. Weigle, "Quantifying Orphaned Annotations in Hypothes.is," In Proceedings of the Theory and Practice of Digital Libraries Conference (TPDL). Poznan, Poland, September 2015

B. Terzi, K. Arumugam, M. Aturban, C. Cotnoir, A. Godunov, D. Ranjan, M. Stefani, F. Lin, V. Morozov, Y. Roblin and H. Zhang, "HIGH-FIDELITY SIMULATIONS OF LONG-TERM BEAM-BEAM DYNAMICS ON GPUS" 12th International Computational Accelerator Physics Conference (ICAP) 2015, Shanghai

B. Terzic, V. Morozov, Y. Roblin, F. Lin, H. Zhang, M. Aturban, D. Ranjan and M. Zubair, "GPU-Accelerated Long-Term Simulations of Beam-Beam Effects in Colliders", 5th International Particle Accelerator Conference 2014, Dresden

Y. Roblin, V. Morozov, B. Terzic, M. Aturban, D. Ranjan and M. Zubair, "GPU-optimized Code for Long-term Simulations of Beam-beam Effects in Colliders", 4th International Particle Accelerator Conference 2013, Shanghai

## ARTICLES

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M. Aturban, M. L. Nelson and M. C. Weigle, "Quantifying Orphaned Annotations in Hypothes.is," Technical Report arXiv:1512.06195, 2015, <http://arxiv.org/pdf/1512.06195v1.pdf>

M. Aturban, M. L. Nelson and M. C. Weigle, "Difficulties of Timestamping Archived Web Pages," . Tech. Rep. arXiv:1712.03140 (2017), <https://arxiv.org/pdf/1712.03140.pdf>

## WORK EXPERIENCE

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<i>Jan 2015 - Aug 2016</i>	<b>Teaching Assistant</b> <i>Department of Computer Science, Old Dominion University</i> Courses: Programming and Problem Solving in C++ (online course instructor), Cyber-Security Fundamentals (online), Information Visualization, Computer Architecture I, Introduction to Discrete Structures, Introduction to Networks and Communications
<i>Aug 2011 - May 2012</i>	<i>Department of Computer Science, New Mexico State University</i> Courses: Software Development, Operating Systems, Object Oriented Programming in C++
<i>Jan 2003 - Mar 2008</i>	<i>Department of Computer Science, University of Tripoli</i> Courses: FORTRAN, C, C++, Computer Fundamentals
<i>Aug 2016 - present</i>	<b>Research Assistant</b> <i>Department of Computer Science, Old Dominion University</i> Project: Capturing and archiving the scholarly record on the web Advisor: Dr. Michele WEIGLE and Dr. Michael NELSON
<i>Jan 2011 - May 2012</i>	<i>Department of Computer Science, New Mexico State University</i> Project: Coordinated Infrastructure for Fault Tolerant Systems Advisor: Dr. Jonathan COOK
<i>Jun 2003 - Aug 2006</i>	<b>Software Engineer</b> <i>Tatweer (Acer Authorized Service Provider), Ben Ashour Street, Tripoli, Libya</i> APPLICATIONS: <ul style="list-style-type: none"><li>• <b>University Registrar's System:</b> currently used in the CS Dept at University of Tripoli, and the Higher Institute of Engineering, Houn, Libya</li><li>• <b>Banking/Loan System:</b> for National Banking Corporation, Libya</li><li>• <b>Vehicle Record System, Auto Parts System, and Supply Warehouse System:</b> currently used at the Libyan Ministry of Justice and Public Security, and Civil Affairs Agency</li><li>• <b>Automated System for Assigning High School Students to Higher Education Institutions:</b> Year 2005/2006 for Libyan Ministry of Higher education and Libyan Ministry of Labor</li><li>• <b>Thesis/Dissertation Record System</b> for Libyan Ministry of Higher education</li></ul>

## WORKSHOPS, PARTICIPATION, AND CONFERENCE PRESENTATIONS

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Mohamed Aturban, "It is hard to compute fixity on archived web pages," Presented at the monthly PhD Gathering, Department of Computer Science, Old Dominion University, January 2019

Mohamed Aturban, "Establishing and Verifying Fixity of Archived Web Pages," at the ACM/IEEE Joint Conference on Digital Libraries (JCDL), Doctoral Consortium, Fort Worth, Texas, USA, 2018

Mohamed Aturban, Michael L. Nelson, and Michele C. Weigle, "It is hard to compute fixity on archived web pages," Presented at the Web Archiving and Digital Libraries Workshop (WADL), 2018

Archives Unleashed 3.0: Web Archive Datathon, February 2017, Internet Archive, San Francisco, CA. Team project: End of Term Transition

Archives Unleashed 2.0: Web Archive Datathon, June 2016, Library of Congress, Washington DC. Team project: Which States and Topics did the Two Presidential Candidates Mention?

## SCHOLARSHIPS AND HONORS

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APR 2016 - PRESENT	The Honor Society of Phi Kappa Phi
JUN 2018	Best Poster Award, ACM/IEEE JCDL 2018
APR 2018	2018 Scholarship Recipient, College of Science, Old Dominion University
FEB 2018	Best Project Award, Archives Unleashed 3.0, Internet Archive, San Francisco, CA
FEB 2012 - JUL 2017	Graduate Scholarship Award: Libyan Ministry of Higher Education and Scientific Research (MOHESR) (PhD)
MAR 2008 - MAY 2011	Graduate Scholarship Award: Libyan Ministry of Higher Education and Scientific Research (MOHESR) (MSc)

## INTERESTS

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Open-Source, Programming, Web Annotation, Web Archiving, Digital Libraries, HPC