

Neslisah Torosdagli

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Education

- Ph.D. **University of Central Florida, Computer Science Division** (Current GPA: 4.00/4.00), 2019
Dissertation : "Synergistic Visualization And Quantitative Analysis Of Volumetric Medical Images"
- MS. **University of Central Florida, Computer Science Division** (CGPA: 4.00/4.00), 2016
- MS. **Middle East Technical University, Department of Computer Engineering** (3.71/4.00), 2000
Thesis Title: "A new file format for content-based coding of images".
- BS. **Middle East Technical University, Department of Computer Engineering** (3.53/4.00), 1997
Rank : 2 / 80

Industrial Experience

- Software Engineering Intern, **Apple**, Orlando, FL Summer 2017
 - Current test infrastructure optimization in **python**
 - Development of test framework for future test cases in **C++**
 - Development of test cases for the new GPU features in **C++**
- Software Engineering Intern, **Electronic Arts**, Orlando, FL Summer 2016
 - Development of Parallax-Occlusion Mapping algorithm in **DirectX**
- Mobile Developer, **DxWave, UK**, Ankara Office 2011-2012
 - Web page usability analysis, usability heat-map generation in **Objective C**
 - Middle East Technical University IOS AR classroom search application in **Objective C**
- Lead Software Engineer, **Milsoft**, Ankara, 2001-2006
 - Turkish UAV Transportable Image Exploitation System & Remote Imaging Terminal, Analysis, Design, and Development of UAV Image Exploitation System Requirements
 - S-92 Helicopter Maintenance Data Computer, Development and verification of Sikorsky S-92 Helicopter MDC (Maintenance Data Computer) **DO178-B Level C** software using **Ada** and **AdaTest**

Academic Experience

- Graduate Teaching Associate, Department of Computer Science, UCF
 - CAP 3330 Object Oriented Programming Fall 2017-Spring 2018
 - Taught **Java** and **OO Paradigm** to 200 students
 - Prepared 3 exams, and 9 programming assignments
 - CAP 4720 Computer Graphics Fall 2016
 - Taught introductory level **Computer Graphics** using **WebGL** and **Javascript** to 55 students,
 - Prepared 8 exams, and 5 programming assignments
- Graduate Research Assistant, Department of Computer Science, UCF Spring 2015 - Spring 2016
 - Development of Web-based Interactive Real-time Volume Renderer using **C++**, **Javascript**, **OpenGL**, **WebGL**, **HTML**, **CSS**, and **boost** and **ITK** libraries
- Graduate Teaching Assistant, Department of Computer Science, UCF Fall 2014
 - CAP 3330 Object Oriented Programming
- Instructor, METU, **C** Programming Language 2007
- Instructor, Baskent University, Programming Languages and **C++** using Visual Studio 2006

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Programming Languages

- C, C++, OpenGL, OpenCL, WebGL, Python, Objective C, Java, Javascript, Matlab, ADA, R, Intel 8085/86 Assembly Programming

Publications/Presentations

- **"Deep Geodesic Learning for Segmentation and Anatomical Landmarking"**, Neslisah Torosdagli, Denise K. Liberton, Payal Verma, Murat Sincan, Janice Lee, and Ulas Bagci. IEEE Transactions on Medical Imaging. (2018): 13. Print.
- **"Deep learning beyond cats and dogs: recent advances in diagnosing breast cancer with deep neural networks"**, Jeremy R Burt, Neslisah Torosdagli, Naji Khosravan, Harish RaviPrakash, Aliasghar Mortazi, Fiona Tissavirasingham, Sarfaraz Hussein & Ulas Bagci (0). The British Journal of Radiology, 0, 20170545.
- **"Robust and Fully Automated Segmentation of Mandible from CT Scans"**, Neslisah Torosdagli, Denise Liberton, Payal Verma, Murat Sincan, Janice Lee, Sumantha Pattanaik, Ulas Bagci. IEEE ISBI 2017, Sydney, Australia, 2017. **Oral Presentation, [ISBI 2017 Travel Award Recipient]**
- **"A theorem proving approach for automatically synthesizing visualizations of flow cytometry data"**, Raj, Sunny, Faraz Hussain, Zubir Husein, Neslisah Torosdagli, Damla Turgut, Narsingh Deo, Sumanta Pattanaik, Chung-Che Jeff Chang, and Sumit Kumar Jha. BMC bioinformatics 18, no. 8 (2017): 245.
- **"Interactive Out-of-Core Volume Rendering"**, Neslisah Torosdagli, Sumanta Pattanaik, Curtis Lisle, Yanling Liu, UCF-Mayo Clinic Mini Symposium, 2017.
- **"Parallel Out-of-Core Medical Volume Segmentation"**, Neslisah Torosdagli, Sumanta Pattanaik, Ulas Bagci, **Grad Cohort Workshop 2017**.
- **"Robust and Fully Automated Segmentation of Mandible from CT Scans"**, Neslisah Torosdagli, Denise K. Liberton, Payal Verma, Murat Sincan, Janice Lee, Sumanta Pattanaik, Ulas Bagci, **UCF Research Week 2017**.
- **"SANJAY: Synthesizing Visualizations of Flow Cytometry Data using Symbolic Decision Procedures"**, Faraz Hussain, Neslisah Torosdagli, Sumanta Pattanaik, Narsingh Deo, Sumit Kumar Jha, and Chung-Che Jeff Chang, 5th IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS) October 15-17, 2015, Miami, FL, USA.
- **"Web based Out-of-Core Volume Visualization in Client-Server Architectures"**, Neslisah Torosdagli, Sumanta Pattanaik, Curtis Lisle, Yanling Liu, BioImage Informatics Conference 2015, October 14- 16, Gaithersburg, MD, USA.
- **"Web-based Interactive Real-Time Volume Rendering"**, Neslisah Torosdagli, Sumanta Pattanaik, Curtis Lisle, 6th international meeting on Visualizing Biological Data (VIZBI 2015), ENBO & NIH Conference series, March 25-27, Cambridge MA, USA.
- **"Matching algorithm based on Godel coding scheme"**, Neslisah Dicle and Volkan Atalay, Proc. SPIE, vol. 3974, pp. 576-583, 2000.

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Honors

- Order of Pegasus 2017 Nominee,
- Anita Borg Institute • Grace Hopper • Celebration of Women in Computing 2017 Scholarship Recipient,
- IEEE International Symposium on Biomedical Imaging 2017 Travel Award Recipient,
- CRA-W Computing Research Association 2016 Scholarship Recipient,
- Frederick National Laboratory for Cancer Research – National Institute of Health - Scholarship Recipient for 4 Semesters,
- Graduated from BS with second highest rank award,

References

Will be provided upon request.