

Abdelrahman Kamel Siddek Abdelhamed

CV

PhD Student

Department of Electrical Engineering and Computer Science

Lassonde School of Engineering

York University

4700 Keele St, Toronto, ON, Canada M3J 1P3

+1 (647)-916-3513

kamel@eecs.yorku.ca

<http://www.eecs.yorku.ca/~kamel/>

<https://scholar.google.com/citations?user=5smK7uUAAAAJ>

RESEARCH INTERESTS	General: Computer Vision, Image Processing, Computational Photography, Machine Learning, Human Computer Interaction. Specific: Noise Modelling, White Balance, Mobile Interfaces, Nearest Neighbour Search, Multi-media Retrieval.
EDUCATION	<p>York University, Toronto, Canada</p> <p>PhD, Computer Science [Expected: Summer 2020]</p> <ul style="list-style-type: none">Advisor: Prof. Michael S. Brown <p>National University of Singapore, Singapore</p> <p>MSc, Computer Science [December 2016]</p> <ul style="list-style-type: none">Thesis: <i>Two-Illuminant Estimation and User-Preferred Correction for Image Color Constancy</i>Advisor: Prof. Michael S. BrownCAP: 4.38 / 5Courses: CS6210 The art of computer science research, CS6234 Advanced algorithms, CS5240 Theoretical foundations in multimedia, CS5248 Systems support for continuous media, CS6101 Exploration of computer science research <p>Assiut University, Egypt</p> <p>MSc, Computer Science [March 2014]</p> <ul style="list-style-type: none">Thesis: <i>Real-Time Large-Scale Content-Based Image Retrieval</i>Best MSc thesis award, Assiut UniversityAdvisors: Prof. Yousef B. Mahdy and Assoc. Prof. Khaled F. HussainCourses: CE611 Modern Computer Architectures, CS611 Data Compression, CS614 Software Reliability and Reusability, CS612 Object Oriented Software Engineering, and CS618 Advanced Topics in Computer Science <p>BSc, Computer Science [June 2009]</p> <ul style="list-style-type: none">Grade: Distinction with Honor, GPA: 90%, 1st of Computer Science program.Graduation project: <i>Building a Virtual Supercomputer based on Grid Computing (C# and .NET Remoting)</i>Best MSc thesis award, Assiut UniversityAdvisor: Prof. Yousef B. Mahdy
EXPERIENCE	<p>Research Intern (Computer Vision and Machine Learning), Borealis AI [Oct. 2018 – Apr. 2019]</p> <p>Teaching/Research Assistant, York University [2017 – present]</p> <ul style="list-style-type: none">CS2011 Data structuresCS2030 Advanced object oriented programmingCS1012 Net-centric introduction to computing <p>Teaching Assistant, National University of Singapore [2015 – 2016]</p> <ul style="list-style-type: none">CS2010 Data structures and algorithms II

Assistant Lecturer , Assiut University	[2014 – 2015]
Teaching/Research Assistant , Assiut University	[2009 – 2014]
Introduction to computer science with C, Structured and OOP programming in C++, Visual programming in C#, Compilers theory, Computer systems security, Computer organization and architecture	

PUBLICATIONS

5. MarkWhite: An Improved Interactive White-Balance Method for Smartphone Cameras
Abdelrahman Abdelhamed, MacKenzie I. S., Brown M. S.
Graphics Interface (GI), 2019
[PDF](#)
4. A High-Quality Denoising Dataset for Smartphone Cameras
Abdelrahman Abdelhamed, Lin, S., Brown M. S.
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018
[PDF](#) | [Project](#) | [Code](#)
3. Two Illuminant Estimation and User Correction Preference
Cheng D*, Abdelrahman Kamel*, Price, B., Cohen, S., Brown M. S. * *Equal Contribution*
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016
[PDF](#) | [Project](#)
2. Multi-Bin Search: Improved Large-Scale Content-Based Image Retrieval
Abdelrahman Kamel, Yousef B. Mahdy, Khaled F. Hussain
International Journal of Multimedia Information Retrieval (IJMIR), 2014
[PDF](#)
1. Multi-Bin Search: Improved Large-Scale Content-Based Image Retrieval
Abdelrahman Kamel, Yousef B. Mahdy, Khaled F. Hussain
International Conference on Image Processing (ICIP), 2013
[PDF](#)

PAPERS UNDER REVIEW

1. AFIF⁴: Deep Gender Classification based on AdaBoost-based Fusion of Isolated Facial Features and Foggy Faces
Mahmoud Afifi, Abdelrahman Abdelhamed
Journal of Visual Communication and Image Representation (under review)
[PDF](#)

AWARDS

York University, Canada	
• AdeptMind Scholarship	[2018 – 2019]
• Ontario Trillium Scholarship (OTS)	[2017 – 2018]
• Lassonde Graduate Entrance Scholarship (LGES)	[2017]
• York Graduate Scholarship (YGS)	[2017]
National University of Singapore	
• NUS Research Scholarship	[2015 – 2016]
Assiut University, Egypt	
• Best MSc thesis award	[2016]

PROFESSIONAL SERVICE

Workshop/Challenge organizer and program committee member, NTIRE: New Trends in Image Restoration and Enhancement workshop and challenges at CVPR 2019

Website chair, IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2018

Reviewer

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2019
- International Conference on Computer Vision (ICCV) 2019
- British Machine Vision Conference (BMVC), 2018, 2019
- IEEE Winter Conference on Applications of Computer Vision (WACV), 2019
- Conference on Computer and Robot Vision (CRV), 2019
- [IET Computer Vision](#)
- [Signal Processing](#)

ACTIVITIES & LEADERSHIP	• Leader of BSc Graduation Project team, Assiut University	[2009]
	• Manager of many students' graduation projects, Assiut University	[2009–2015]
	• Organizer of student programming competitions, Assiut University	[2009–2015]
	• Conducting talks, presentations, workshops, and tutorials on High Performance Computing (HPC) Labs, Assiut University	[2014–2015]
	• IEEE Student Member	
PRESENTATIONS	• A guiding talk on “How to get a PhD scholarship” for BSc and MSc students, Assiut University	[2015]
	• Linking Cinema to the Scientific Method, “Interstellar: The Scientific Method”, National University of Singapore	[2016]
TRAINING	Cisco Systems, Inc.	
	• CCNA Exploration: Network Fundamentals	[2010]
	• Developing Local Talent in Technology (DLTT)	[2010]
	Assiut University	
	• University Teacher Preparation	[2013]
	• Credit Hours Systems	[2011]
	• Strategic Planning	[2010]
	• Student Evaluation Systems	[2010]
	• Scientific Conference Organization	[2010]
PROGRAMMING SKILLS & LIBRARIES	• Python, MATLAB, C++, C#, JAVA, PHP, Ruby, HTML/CSS, JavaScript, SQL	
	• TensorFlow, MATLAB, MATLAB's Neural Network Toolbox, MatConvNet, Android SDK, Android Camera2 API, OpenCV, MPI, MPI.NET, MapReduce/Hadoop, .NET Framework, .NET Remoting, MySQL, SQL Server	
REFERENCES	Michael S. Brown	
	Professor, Canada Research Chair in Computer Vision EECS Dept., Lassonde School of Engineering York University, Canada	+1 (416)-736-2100 x66675 mbrown@eecs.yorku.ca
	I. Scott MacKenzie	
	Professor EECS Dept., Lassonde School of Engineering York University, Canada	+1 (416)-736-2100 x40631 mack@eecs.yorku.ca
	Brian Price	
	Senior Research Scientist, PhD Creative Intelligence Lab, San Jose Adobe Research, USA	bprice@adobe.com

Yousef B. Mahdy

Professor, Head of Department of Computer Science
Faculty of Computers and Information
Assiut University, Egypt

ybmahdy@fci.au.edu.eg

Khaled F. Hussain

Associate Professor, Department of Computer Science
Vice Dean for Community Services and Environmental Development
Faculty of Computers and Information
Assiut University, Egypt

khussain@aun.edu.eg



April 13, 2019