

Lance A. Rice

Lrice10@uncc.edu

(910)-610 8298

Objective: Computer Vision and/or Machine Learning Researcher

Education	Technical Competencies
University of North Carolina at Charlotte <ul style="list-style-type: none"> • BA in Computer Science, Dec 2013 • BA in Mathematics, Dec 2013 • MS in Computer Science, • Ph.D. in Computer Science (May 2018) 	<u>Programming Languages:</u> <ul style="list-style-type: none"> • Java, Matlab, .Net, Lisp <u>Familiar Operating Systems:</u> <ul style="list-style-type: none"> • Linux, Windows, Android <u>Tools with considerable experience:</u> <ul style="list-style-type: none"> • Adobe Photoshop • Adobe Illustrator • MS Office • L^AT_EX • Git / Mercurial • Netbeans / Jetbrains • Laravel (PHP) • JavaFx

Research Experience	
Volunteer in Future Computing Lab: UNCC	<ul style="list-style-type: none"> • May 2012 – May 2013 (Volunteer) • Programming depth sensor network and user interface for gait analysis system in C# • Worked closely with professional mentor
Research Experience for Undergrads Program: UNCC	<ul style="list-style-type: none"> • May 2013 – August 2013 (Paid Position) • Programming cell tracking algorithms in Matlab • Collaborated with Cellular Biologist
Research Assistant in Future Computing Lab: UNCC	<ul style="list-style-type: none"> • August 2013 – December 2014 (Paid Position) • Programming tracking algorithms in Matlab • Programming User Interfaces in Java • Worked in team with the purpose of public deployment of the software to researchers.
Research Assistant in Vision and Image Analysis (Via) Lab: UNCC	<ul style="list-style-type: none"> • June 2015 – Today (Paid Position) • Programming tracking algorithms and guided results correcting algorithm in Java & Matlab • Working with (often organized) team and communicating with biology researchers tracking tool improvements
Teaching Experience	
Teaching Assistant (UNCC)	<ul style="list-style-type: none"> • Class: UG/MS Computer Vision • January 2015 – May 2015

Publications

L. Rice, A. Dornhaus, and M. Shin: *Efficient Training of Multiple Ant Tracking* IEEE Winter Conference on Applications of Computer Vision (WACV 2015)

S. Schmutz, **L. Rice**, N. Nguyen, J. Lindberg, M. Shin: *Detection of Cracks in Nuclear Power Plant using Spatial-temporal Grouping of Local Patches* IEEE Winter Conference on Applications of Computer Vision (WACV 2016)

S. Schmutz, **L. Rice**, J. Lindberg, Robert Grizzi, Chris Joffe, M. Shin: *Crack Segmentation by Leveraging Multiple Frames of Varying Illumination* IEEE Winter Conference on Applications of Computer Vision (WACV 2017)

Awards

1st ~ UNCC Graduate Research Flash Talk Competition
in Computer Science (5/2016)

1st ~ UNCC Graduate Research Symposium (Best Oral Presentation):
Math & Computer Science (4/2016)
Detection of Cracks in Nuclear Power Plants

Member of the year ~ Video and Image Analysis Lab (5/2015)

1st ~ Annual Socially Relevant Computing REU Symposium (7/2013)
Automated Tracking of Biological Cell in Video Microscopy

1st ~ Atkins Library Undergraduate Research Conference: Math & Computer Science (5/2013)
Human gait analysis through Networking Inexpensive Depth Sensors

Other Professional Development

3rd Mid-Atlantic Computer Vision (MACV) Workshop 2016
(Poster Presentation given)

Activities

IEEE Student Member of (4+ years):

- Computing Society
- Signal Processing Society

- Android Game Development
- Soccer, Tennis, and Hiking
- Acting (*Performance appearance in three plays at the UNCC Robinson Hall-Theatre*).
- Digital art and woodworking