Auston Sterling

Education

2013–Present **PhD Computer Science**, *University of North Carolina at Chapel Hill*.
Member of GAMMA research group working under Dr. Ming C. Lin. Coursework in Technical Communication in Computer Science.

2010–2013 **B.S. Computer Science**, *Rensselaer Polytechnic Institute*, Troy, NY, *3.61 GPA*.
Advanced coursework in Computer Graphics, Game Architecture, and Computer Vision.

Experience

Summer 2017 Instructor with full responsibility for UNC CS course COMP-116, "Introduction to Scientific Programming", teaching data analysis in Python to science majors.

Summer 2016 Internship at Aurora Flight Sciences on machine learning for flight anomaly detection.

Summers 2014, 2015 Teaching Assistant at Center for Talented Youth. Assisted in teaching intensive three-week courses for Data Structures and Cryptology.

Fall 2013 Graduate TA for Data Structures. Graded all assignments and exams, held frequent office hours, and reviewed exam solutions in-class.

2012–2013 Undergraduate Teaching Assistant for introductory level Data Structures

Selected Publications

2019 Sterling, Auston, Nicholas Rewkowski, et al. "Audio-Material Reconstruction for Virtualized Reality Using a Probabilistic Damping Model". In: *Conditionally accepted to IEEE VR 2019 and TVCG*.

2018 Sterling, Auston, Justin Wilson, et al. "ISNN: Impact Sound Neural Network for Audio-Visual Object Classification". In: *The European Conference on Computer Vision (ECCV)*.

2016 Sterling, Auston and Ming C. Lin. "Integrated multimodal interaction using texture representations". In: *Computers & Graphics*.

Sterling, Auston and Ming C. Lin. "Interactive Modal Sound Synthesis Using Generalized Proportional Damping". In: *Proceedings of the 20th ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games*. I3D '16.

Skills

Research Physically-Based Modeling, Multimodal Interaction, Machine Listening

Programming C/C++, Python, OpenGL, LaTeX, Tensorflow, Keras

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