Max Hudnell

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EDUCATION

University of North Carolina at Chapel Hill **MSc in Computer Science**

Coursework: 3D Computer Vision, 2D Graphics, Medical Image Analysis, Computational Geometry, Machine Learning, Generative Methods in ML, Distributions in ML, and more!

University of North Carolina at Chapel Hill

BSc in Computer Science, BA in Mathematics

PUBLICATIONS

Hudnell, Max, and Steven King. "Health Greeter Kiosk: Tech-Enabled Signage to Encourage Face Mask Use and Social Distancing." ACM SIGGRAPH 2021 Emerging Technologies. 2021. 1-4.

Hudnell, Max, True Price, and Jan-Michael Frahm. "Robust Aleatoric Modeling for Future Vehicle Localization." Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops. 2019.

CVPR 2019 Precognition Workshop — best student paper

WORK EXPERIENCE

UNC Emerging Technologies Lab, Computer Vision Engineer

- Lead architect of cost-friendly solution for volumetric capture
- Lead architect for a computer vision-enabled kiosk capable of mask and social distance detection

UNC Emerging Technologies Lab, Software Engineer - Android

- Lead designer of dual **Android applications** for **remote control** of a Segway self-balancing robot Implemented remote procedure calls (RPC) to enable inter-app communication
 - Presented at The Online News Association Conference 2019

UNC 3D Computer Vision Lab, Research Assistant

- Performed network regression to predict object trajectories / localizations
- **Modeled uncertainty** in our predictions and compared distribution-type effectiveness
- Proposed a new technique for predictive distribution evaluation

UNC CS Department, Teaching Assistant

- COMP 475: 2D Graphics; COMP 550: Algorithms; COMP 411: Computer Organization
- . Assisted students with C/C++, MIPS, and SQL programming
- Held lectures, interactive git tutorial sessions, extensive office hours

Bandwidth, Software Development Intern

Created a **NodeJS** library for visual regression testing of **ReactJS** components 400+ downloads, available on npm: hubble-x

Participate Learning, Software Engineer Intern

Created an interactive data visualization application using JavaScript, ASP.net, and SQL Server

VOLUNTEER EXPERIENCE

SIGGI	RAPH 2019, Student Volunteer	July 2019
•	Assisted operations of the VR Theater, art installations, studio workshops and research ex	xhibitions

SKILLS

May 2017

May 2019

Jan '20 – Present

Mav '19 – Jan '20

Jan '18 – June '19

Aug '16 – May '19

May '18 - Aug '18

Feb '16 - Feb '17