AUSTIN MYERS

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EXPERIENCE

Google DeepMind Research Engineer	May 2024 - Present San Francisco, CA
 Designed video captioning methods and datasets for evaluation and trai of VLMs such as Gemini, and researched consistent conditional generation 	ining
 Google Research Research Engineer Developed multimodal video-language models for fundamental research to video description and temporal action detection in Google Photos and 	
 Waymo Software Engineer Developed segmentation, object detection, and tracking algorithms to improve self driving car perception capabilities. 	<i>Dec. 2016 - Jan. 2019</i> Mountain View, CA
 Google Research, Machine Intelligence Ph.D. Software Engineering Intern Advisor: Kevin Murphy Developed semantic segmentation and object detection algorithms to predict nutritional content of food in images. 	Jun. 2015 - Aug. 2015 Mountain View, CA
 Center for Automation Research, UMIACS¹ Graduate Research Assistant Advisor: Dr. Yiannis Aloimonos Co-Advisor: Dr. Cornelia Fermuller Developed methods to identify the functionality of object parts in RGB using deep learning and segmentation algorithms. 	Jan. 2012 - Dec. 2016 College Park, MD -D data
Goddard Space Flight Center, NASA ² Research Intern	Jun. 2011 - Aug. 2011 Greenbelt, MD
• Advised an undergraduate intern team on a project to allow groups of i etary robots to map terrain using simultaneous localization and mappin	-
Center for Automation Research, UMIACS ¹ Graduate Research Assistant Advisor: Dr. Hanan Samet	<i>Jun. 2010 - Jan. 2011</i> College Park, MD
 Developed a system and algorithms to detect image duplicates among la image data dynamically collected from social media and Internet news s 	-
EDUCATION	
University of Maryland, College Park Ph.D. in Computer Science	2016
University of Maryland, College Park B.S. in Computer Engineering	2010

¹University of Maryland Institute for Advanced Computer Studies

²National Aeronautics and Space Administration

PUBLICATIONS

Xingyi Zhou, Anurag Arnab, Shyamal Buch, Shen Yan, **Austin Myers**, Xuehan Xiong, Arsha Nagrani, and Cordelia Schmid. *Streaming Dense Video Captioning*. IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024.

David Chan, Yiming Ni, Sudheendra Vijayanarasimhan, David Ross, **Austin Myers**, and John Canny. *Distribution aware metrics for conditional natural language generation*. International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING), 2024.

David Chan, **Austin Myers**, Sudheendra Vijayanarasimhan, David Ross, and John Canny. IC^3 Image Captioning by Committee Consensus. Empirical Methods in Natural Language Processing (EMNLP), 2023.

David Chan, **Austin Myers**, Sudheendra Vijayanarasimhan, David Ross, Bryan Seybold, and John Canny. *What's in a Caption? Dataset-Specific Linguistic Diversity and Its Effect on Visual Description Models and Metrics*. Workshop on Vision Datasets Understanding: Conference on Computer Vision and Pattern Recognition Workshop (CVPR), 2022.

Chen Sun, **Austin Myers**, Carl Vondrick, Kevin Murphy, and Cordelia Schmid. *Videobert: A joint model for video and language representation learning*. International Conference on Computer Vision (ICCV), 2019.

Austin Myers, Nick Johnston, Vivek Rathod, Anoop Korattikara, Alex Gorban, Nathan Silberman, Sergio Guadarrama, George Papandreou, Jonathan Huang, and Kevin Murphy. *Im2Calories: Towards an Automated Mobile Vision Food Diary*. International Conference on Computer Vision (ICCV), 2015.

Austin Myers, Ching L. Teo, Cornelia Fermüller, and Yiannis Aloimonos. *Affordance detection of tool parts from geometric features*. International Conference on Robotics and Automation (ICRA), 2015.

Austin Myers, Angjoo Kanazawa, Cornelia Fermüller, and Yiannis Aloimonos. *Affordance of object parts from geometric features*. RGB-D: Advanced Reasoning with Depth Cameras Workshop: Robotics Science and Systems (RSS), 2014.

Austin Myers, Angjoo Kanazawa, Cornelia Fermüller, and Yiannis Aloimonos. *Affordance of object parts from geometric features*. Vision Meets Cognition Workshop: Computer Vision and Pattern Recognition (CVPR), 2014.

Ching L. Teo, **Austin Myers**, Cornelia Fermüller, and Yiannis Aloimonos. *Embedding high-level information into low level vision: Efficient object search in clutter*. International Conference on Robotics and Automation (ICRA), 2013.

TEACHING

CMSC733: Computer Processing of Pictorial Information.	Fall 2012
CMSC412: Operating Systems.	Fall 2011
CMSC216: Introduction to Computer Systems.	Fall 2011
CMSC122: Introduction to Computer Programming via the Web.	Spring 2011

AWARDS

University of Maryland Deans List	Fall 2006, Spring 2008 - Spring 2010
UMCP Presidents Scholarship Award	Fall 2006 - Spring 2010
A. James Clark School of Engineering Scholars Award	Fall 2006 - Spring 2010
Maryland Distinguished Scholar Award	Fall 2006 - Spring 2010

Languages (Proficient): Python, C, C++ Languages (Experienced): Java, C#, MATLAB, CUDA Libraries and Tools: Jax, PyTorch, TensorFlow, NumPy, ROS, LATEX, Emacs, bash, Linux.