

Anthony LoPrete

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EDUCATION	University of Pennsylvania , Philadelphia, PA PhD Bioengineering, Advisor: Dr. Johannes Burge	Aug 2021 - Present
	American University , Washington, DC BS Physics (honors) and Computational Science, <i>summa cum laude</i>	Aug 2017 - May 2021
HONORS & AWARDS	Ashton Fellowship Outstanding Academics in Physics Scott A. Bass Outstanding Scholarship at the Undergraduate Level Award Outstanding Achievement in Undergraduate Research Goldwater Scholarship University of Rochester CVS/NIH Summer Research Fellowship Upsilon Pi Epsilon NASA DC Space Grant Summer Research Fellowship	Aug 2021 Apr 2021 Apr 2021 Mar 2021 Mar 2020 Mar 2020 Mar 2019 Mar 2019
PAPERS & PUBLICATIONS	Anthony LoPrete and Johannes Burge, “The Pulfrich Effect: Temporal Processing and 3D Perception,” In: The Oxford Compendium of Visual Illusions, 2nd Edition (2025, in press). Editors: Arthur G. Shapiro and Dejan Todorovic. 1-13. Oxford University Press. Anthony LoPrete , Alexander Gokan, and Arthur G. Shapiro, “The Pulfrich Effect in Virtual Reality,” (2024, under review), Preprint posted at: bioRxiv. 585956, 1-20. DOI: https://doi.org/10.1101/2024.03.21.585956 Emily L. Isenstein, Tomas Waz, Anthony LoPrete , Yacinda Hernandez, Emily J. Knight, Ania Busza, and Dujie Tadin, “Rapid assessment of hand reaching using virtual reality and application in cerebellar stroke,” PLOS One. 17(9). (2022). DOI: https://doi.org/10.1371/journal.pone.0275220 Arthur G. Shapiro and Anthony LoPrete , “Helix rotation: luminance contrast controls the shift from two-dimensional to three-dimensional perception,” Journal of the Optical Society of America A. 37, 262-270 (2020). DOI: https://doi.org/10.1364/JOSAA.382373	
PRESENTATIONS	Anthony LoPrete and Johannes Burge, “Studying Motion Perception in the Real World with Augmented Reality Headsets,” poster presented at: Vision Sciences Society Meeting, May 18, 2025, St. Petersburg, FL. Anthony LoPrete and Arthur G. Shapiro, “Local Contrast and Global Luminance Modulate Interocular Delay in Virtual Reality,” short talk presented at: Optica Fall Vision Meeting, October 19, 2021, Seattle, WA (held virtually). Anthony LoPrete , Emily Isenstein, Emily Knight, and Dujie Tadin, “Development of a VR Reaching Task to Study the Relationship between Vision and Proprioception,” talk presented at: University of Rochester BCS/CVS Summer Undergraduate Research Lecture Session, August 19, 2020, Rochester, NY (held virtually). Anthony LoPrete and Arthur G. Shapiro, “The Pulfrich Effect in Virtual Reality,” poster presented at: NASA DC Space Grant Consortium Poster Session, January 22, 2020, Washington, DC.	

Anthony LoPrete and Arthur G. Shapiro, “Luminance Captures Equiluminance in 3-dimensional motion,” poster presented at: The Optical Society Fall Vision Meeting, September 20 - 21, 2019, Washington, DC.

Arthur G. Shapiro, **Anthony LoPrete**, and Lily Donaldson, “Helix Rotation: A new twist on Pulfrich and Hess for investigating color and depth perception in virtual reality,” talk presented at: Symposium of the International Colour Vision Society, July 9, 2019, Riga, Latvia.

TEACHING	American University	
	CSC-280: Introduction to Computer Science I (Teaching Assistant)	Spring 2019
	CSC-476/676: Computer Vision (Teaching Assistant)	Spring 2021
	MATH-221: Calculus I (Supplemental Instruction Leader)	Spring 2020, Fall 2020
	PHYS-356: Waves and Optics (Teaching Assistant)	Spring 2020
INVITED	University of Pennsylvania, CNI +/-	Mar 2022
TALKS	University of Rochester, Active Perception Lab Meeting	Feb 2021
OUTREACH	Co-organizer, CNI +/-, University of Pennsylvania	Sep 2022 - May 2023
	Panelist, “Applying to STEM Grad Programs,” American University	Oct 2022
	mindCORE Stamp Mentor, University of Pennsylvania	Oct 2021 - Dec 2021
	Panelist, “Merit Awards Demystified,” AU CDI & OMA	Mar 2021
	Volunteer, DC Math Circle	Sep 2019 - Sep 2020