



## Brooke Krajancich

- Ph.D. Student in Electrical Engineering, admitted Autumn 2018
- Student Employee, Digital Education

### Bio

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#### HONORS AND AWARDS

- Knight-Hennessy Fellowship, Stanford University (2018)

#### EDUCATION AND CERTIFICATIONS

- BPhil (hons), University of Western Australia, Electrical engineering & mathematics (2017)

### Publications

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#### PUBLICATIONS

- **Towards Retina-Quality VR Video Streaming: 15 ms Could Save You 80% of Your Bandwidth** *ACM SIGCOMM COMPUTER COMMUNICATION REVIEW*  
Hsiao, L., Krajancich, B., Levis, P., Wetzstein, G., Winstein, K.  
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- **A Perceptual Model for Eccentricity-dependent Spatio-temporal Flicker Fusion and its Applications to Foveated Graphics** *ACM TRANSACTIONS ON GRAPHICS*  
Krajancich, B., Kellnhofer, P., Wetzstein, G.  
2021; 40 (4)
- **Optimizing Depth Perception in Virtual and Augmented Reality through Gaze-contingent Stereo Rendering** *ACM TRANSACTIONS ON GRAPHICS*  
Krajancich, B., Kellnhofer, P., Wetzstein, G.  
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- **Factored Occlusion: Single Spatial Light Modulator Occlusion-capable Optical See-through Augmented Reality Display**  
Krajancich, B., Padmanaban, N., Wetzstein, G.  
IEEE COMPUTER SOC.2020: 1871–79
- **Handheld volumetric manual compression-based quantitative micro-elasticity.** *Journal of biophotonics*  
Fang, Q., Frewer, L., Zilkens, R., Krajancich, B., Curatolo, A., Chin, L., Foo, K. Y., Lakhiani, D. D., Sanderson, R. W., Wijesinghe, P., Anstie, J. D., Dessauvage, B. F., Latham, et al  
2020
- **A Patient-Specific Mixed-Reality Visualization Tool for Thoracic Surgical Planning.** *The Annals of thoracic surgery*  
Perkins, S. L., Krajancich, B. n., Jeffrey Yang, C. F., Hargreaves, B. A., Daniel, B. L., Berry, M. F.  
2020
- **Handheld probe for quantitative micro-elasticity.** *Biomedical optics express*  
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2019; 10 (8): 4034-4049
- **Handheld optical palpation of turbid tissue with motion-artifact correction** *BIOMEDICAL OPTICS EXPRESS*

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2019; 10 (1): 226–41