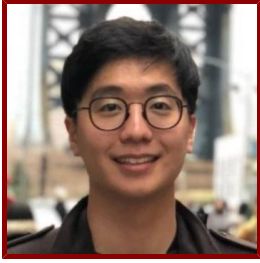


# Stanford

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## Geun Ho Ahn

- Ph.D. Student in Electrical Engineering, admitted Autumn 2018
- Masters Student in Electrical Engineering, admitted Autumn 2020
- Grader for EE 222, Electrical Engineering - Student Services

### Bio

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#### BIO

I am a PhD candidate in Electrical Engineering working at Professor Jelena Vuckovic's Nanoscale Quantum Photonics Laboratory. My research interests are computational optimizations of photonic devices and quantum technologies made from nanoscale fabrications.

#### HONORS AND AWARDS

- Stanford Graduate Fellowship - STMicroelectronics Fellow, Stanford University (2018)
- Kwanjeong Educational Foundation Overseas Scholarship, Kwanjeong Educational Foundation (2018)
- Timothy B. Campbell Innovation Award in Electrical Engineering and Computer Sciences, University of California, Berkeley (2018)
- Haas Scholars Fellowship, University of California, Berkeley (2017)
- James H. Eaton Memorial Scholarship in Electrical Engineering and Computer Sciences, University of California, Berkeley (2017)

#### EDUCATION AND CERTIFICATIONS

- Bachelor of Science, University of California, Berkeley , Electrical Engineering and Computer Sciences (2018)

#### STANFORD ADVISORS

- David Miller, Doctoral Dissertation Reader (AC)
- Shanhui Fan, Doctoral (Program)
- Jelena Vuckovic, Doctoral Dissertation Advisor (AC)

#### LINKS

- Google Scholar: [https://scholar.google.com/citations?user=qIjoc\\_0AAAAJ&hl=en](https://scholar.google.com/citations?user=qIjoc_0AAAAJ&hl=en)

### Publications

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#### PUBLICATIONS

- **Inverse-designed non-reciprocal pulse router for chip-based LiDAR** *NATURE PHOTONICS*  
Yang, K., Skarda, J., Cotrufo, M., Dutt, A., Ahn, G., Sawaby, M., Vercruyse, D., Arbabian, A., Fan, S., Alu, A., Vuckovic, J.  
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- **Synthetic WSe<sub>2</sub> monolayers with high photoluminescence quantum yield.** *Science advances*  
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- **Polarization-resolved black phosphorus/molybdenum disulfide mid-wave infrared photodiodes with high detectivity at room temperature** *NATURE PHOTONICS*  
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- **Strain-engineered growth of two-dimensional materials** *NATURE COMMUNICATIONS*  
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- **MoS<sub>2</sub> transistors with 1-nanometer gate lengths** *SCIENCE*  
Desai, S. B., Madhvapathy, S. R., Sachid, A. B., Llinas, J. P., Wang, Q., Ahn, G. H., Pitner, G., Kim, M. J., Bokor, J., Hu, C., Wong, H. P., Javey, A.  
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