



Kateryna Pistunova

- Ph.D. Student in Physics, admitted Autumn 2018
- Ph.D. Minor, Computer Science
- 📄 Curriculum Vitae available Online

Bio

BIO

I am a Ph.D. student in the Department of Physics at Stanford University. Currently I am working in the group of Prof. Tony Heinz. I am interested in studying opto-electronic properties and emergent phenomena in novel two-dimensional van der Waals heterostructures. My current research focuses on transition metal dichalcogenide (TMD) homo- and heterobilayers. I completed my B.S. in Physics from Harvard University where I worked in the group of Prof. Philip Kim on interlayer excitons in WSe₂/MoSe₂ heterostructures and quantum transport in WSe₂ mono- and twisted homobilayers.

EDUCATION AND CERTIFICATIONS

- Bachelor of Science, Harvard University, Physics (2018)

LINKS

- Google Scholar: <https://scholar.google.com/citations?user=V7QY5j0AAAAJ&hl=en>
- LinkedIn: <https://www.linkedin.com/in/kateryna-pistunova-157336135/>
- ResearchGate: https://www.researchgate.net/profile/Kateryna_Pistunova/contributions?sorting=recentlyAdded

Publications

PUBLICATIONS

- **Electrical control of interlayer exciton dynamics in atomically thin heterostructures.** *Science (New York, N.Y.)*
Jauregui, L. A., Joe, A. Y., Pistunova, K. n., Wild, D. S., High, A. A., Zhou, Y. n., Scuri, G. n., De Greve, K. n., Sushko, A. n., Yu, C. H., Taniguchi, T. n., Watanabe, K. n., Needleman, et al
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- **Guided Modes of Anisotropic van der Waals Materials Investigated by near-Field Scanning Optical Microscopy** *ACS PHOTONICS*
Wintz, D., Chaudhary, K., Wang, K., Jauregui, L. A., Ambrosio, A., Tamagnone, M., Zhu, A. Y., Devlin, R. C., Crossno, J. D., Pistunova, K., Watanabe, K., Taniguchi, T., Kim, et al
2018; 5 (4): 1196–1201
- **Probing dark excitons in atomically thin semiconductors via near-field coupling to surface plasmon polaritons** *NATURE NANOTECHNOLOGY*
Zhou, Y., Scuri, G., Wild, D. S., High, A. A., Dibos, A., Jauregui, L. A., Shu, C., De Greve, K., Pistunova, K., Joe, A. Y., Taniguchi, T., Watanabe, K., Kim, et al
2017; 12 (9): 856–+
- **Low-Temperature Ohmic Contact to Monolayer MoS₂ by van der Waals Bonded Co/h-BN Electrodes** *NANO LETTERS*
Cui, X., Shih, E., Jauregui, L. A., Chae, S., Kim, Y., Li, B., Seo, D., Pistunova, K., Yin, J., Park, J., Choi, H., Lee, Y., Watanabe, et al
2017; 17 (8): 4781–86