Curriculum Vitae for Yeongsu Cho

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EDUCATION

Columbia University, New York, NY, USA Ph.D. Chemistry (Defense: 07/19/21) Advisor: Timothy Berkelbach University of Chicago, Chicago, IL, USA M.S. Chemistry Advisor: Timothy Berkelbach Seoul National University, Seoul, Korea 2011-2015

PUBLICATIONS

B.S. Chemistry and Physics

- 6. **Cho, Y**., Greene, S., and Berkelbach, T. Simulations of trion and biexcitons in layered hybrid organic-inorganic lead halide perovskites. *Under review in Phys. Rev. Lett.* arXiv: 2010.10542
- Wiscons, R. A., Cho, Y., Han, S. Dismukes, A. H., Meirzadeh, E., Nuckolls, C., Berkelbach, T., and Roy, X. (2021). Polytypism, anisotropic transport, and Weyl nodes in the van der Waals metal TaFeTe4. *J. Am. Chem. Soc.*, 143, 109-113.
- 4. **Cho, Y**., and Berkelbach, T. (2019). Optical properties of layered hybrid organic-inorganic halide perovskites: a tight-binding GW-BSE study. *J. Phys. Chem. Lett.*, 10, 6189-6196.
- 3. Zhou, Q., Cho, Y., Yang, S., Weiss, E., Berkelbach, T., and Darancet, P. (2019). Large band edge tunability in colloidal nanoplatelets. *Nano Lett.*, 19, 7124-7129.
- 2. Raja, A., Waldecker, L., Zipfel, J., Cho, Y., Brem, S., Ziegler, J., Kulig, M., Taniguchi, T., Watanabe, K., Malic, E., Heinz, T., Berkelbach, T., and Chernikov, A. (2019). Dielectric disorder in two-dimensional materials. *Nat, nanotechnol.*, 14(9), 832-837.
- 1. **Cho, Y.**, and Berkelbach, T. (2018). Environmentally sensitive theory of electronic and optical transitions in atomically thin semiconductors. *Phys. Rev. B*, 97(4), 041409.

HONORS AND AWARDS

Chemical Computing Group Excellence Award for Graduate Students
 American Chemical Society's Division of Computers in Chemistry

 Kathy Chen Fellowship
 Sep. 2020 - Jun. 2021

Chemistry department, Columbia University

• Andrew Kim Memorial Foundation Fellowship

Korean-American Scientists and Engineers Association

Jun. 2020

• SNUAA Chicago Scholarship

Seoul National University Alumni Association in Chicago

Dec. 2017

• Presidential Science Scholarship

Korea Student Aid Foundation

2011 – 2014

COMPUTATIONAL SKILLS

- C/C++, Python, Mathematica
- Quantum Espresso, Boltzwann, Boltztrap, Wannier_tools, Wannier90