



**Curriculum Vita**  
**November 2025**

**Instructor:** Heungman Park, Associate Professor  
**Academic Department:** Physics and Astronomy

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<b>EDUCATION</b>
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*Ph.D. - Aug 2010, Physics, Vanderbilt University, Nashville, Tennessee, USA*

*M.S. - Sep 2005, Physics, Oregon State University, Corvallis, Oregon, USA*

*B.S. - Feb 2002, Physics, Hanyang University, Seoul, South Korea*

<b>TEACHING EXPERIENCE</b>
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*Aug 2022 – Present, Associate Professor, Department of Physics & Astronomy, East Texas A&M University (formerly, Texas A&M University – Commerce), USA*

*Aug 2016 – Aug 2022, Assistant Professor, Department of Physics & Astronomy, East Texas A&M University (formerly, Texas A&M University – Commerce), USA*

<b>PUBLICATIONS</b>
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**Publications (recent 10 years)**

1. Brian Barker (online MS student), Sahjahan Islam, Dipika Das Ria, **Heungman Park**, "Fluorescence Anisotropy Measurements, Simulations, and Noise Effects in Investigating Exciton Migration and Confinement in Conjugated Polymers", Luminescence Volume 40, Issue 7 July 2025 e70270 , <https://doi.org/10.1002/bio.70270>, (2025)
2. S. Vaught, **H. Park**, "Exciton confined states in conjugated polymers studied by spectroscopic fluorescence polarization measurements", AIP Advances 11, 075126 (2021), <https://doi.org/10.1063/5.0041066>
3. Jake Richter, Moses Nnaji and **Heungman Park**, "Solvent Effect to the Uniformity of Surfactant-Free Salmon-DNA Thin Films", Polymers 2021, 13(10), 1606 (2021), <https://doi.org/10.3390/polym13101606>

4. M.J. Deutsch, **H. Park**, “Internal and external quantum yields enhancement in BDMO-PPV by intense illumination”, *Synthetic Metals*, Vol 269, 116548 (2020), <https://doi.org/10.1016/j.synthmet.2020.116548>
5. Cole Galey, **H. Park**, “Intermediate states during photodegradation in MEH-PPV solutions and thin films”, *AIP Advances* 9, 105010 (2019), <https://doi.org/10.1063/1.5099382>
6. **Heungman Park**, Youngah Karen Kwon, and Laura J. Kaufman, “Complex Photophysical Behaviors Affect Single Conjugated Molecule Optical Anisotropy Measurements”, *J. Phys. Chem. C*, 123, 3, 1960-1965 (2019), <https://doi.org/10.1021/acs.jpcc.8b10916>
7. Jaesung Yang, **Heungman Park**, Laura Kaufman, “In-Situ Optical Imaging of the Growth of Conjugated Polymer Aggregates”, *Angew. Chem. Int. Ed.* 57, 1–6 (2018), <https://doi.org/10.1002/anie.201710336>
8. Jaesung Yang, **Heungman Park**, L. Kaufman, “Highly Anisotropic Conjugated Polymer Aggregates: Preparation and Quantification of Physical and Optical Anisotropy”, *J. Phys. Chem. C* 121 (25), pp 13854 (2017), <https://doi.org/10.1021/acs.jpcc.7b02257>
9. **Heungman Park**, Dat T. Hoang, Keewook Paeng, Jaesung Yang, L. Kaufman, “Conformation-dependent Photostability among and within Single Conjugated Polymers”, *Nano Letters* 15 (11), pp 7604–7609 (2015), <https://doi.org/10.1021/acs.nanolett.5b03409>
10. **Heungman Park**, Dat T. Hoang, Keewook Paeng, Laura J. Kaufman, “Localizing Exciton Recombination Sites in Conformationally Distinct Single Conjugated Polymers by Super-Resolution Fluorescence Imaging”, *ACS Nano*, 9 (3), pp 3151–3158, (2015), <https://doi.org/10.1021/acs.nano.5b00086>
11. Keewook Paeng, **Heungman Park**, Dat Tien Hoang, and Laura J. Kaufman, “Ideal probe single-molecule experiments reveal the intrinsic dynamic heterogeneity of a supercooled liquid”, *PNAS* 1424636112 (2015), <https://doi.org/10.1073/pnas.1424636112>

#### RESEARCH GRANTS AND AWARDS

1. 2025 NASA RIA (Research Initiative Award), “Investigating protective transparent flexible films for organic semiconductor optoelectronic devices in the Martian atmospheric environment”, max \$300,000 for two years as a sole PI.
2. 2024 NSF REU Site: Summer Research Program for Community College and Liberal Arts College Students in Physics and Astronomy, \$334,724 as PI. Award number: 2349111
3. 2022 NSF MRI (Major Research Instrument), as PI: “MRI: Acquisition of a desktop scanning electron microscope (SEM) for research and education in STEM fields at a primarily undergraduate institution.” \$144,300, Award Number: 2216001
4. 2021 NSF REU (Research Experiences for Undergraduates), as PI: “REU Site: Summer research program for community college students in Physics and Astronomy at Texas A&M University-Commerce”, \$236,704 Award Number: 2050277