

Curriculum Vitae

Anqi Zhang

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EDUCATION

2018 - Present Ph.D. Candidate in Physics, the University of Texas at Austin. Co-supervisors: Wilson S. Geisler, Ernst-Ludwig Florin. (Expected December 2024)
2023 M.S. in Statistics, the University of Texas at Austin
2018 B.S. in Physics, the University of Science and Technology of China

RESEARCH EXPERIENCE

Positions

2019 - Present Graduate Researcher at the Center for Perceptual Systems, the University of Texas at Austin
2017 Summer Research Intern at the Institute of Quantum Science and Engineering, Texas A&M University
2016 - 2018 Undergraduate Researcher at Hefei National Laboratory for Physical Sciences at the Microscale, the University of Science and Technology of China

Journal Articles

- [J5] **Zhang, A.**, Seemiller, E. S., & Geisler, W. S. (2023). Phase-dependent asymmetry of pattern masking in natural images explained by intrinsic position uncertainty. *Journal of Vision*, 23(10), 16-16.
- [J4] **Zhang, A.**, & Geisler, W. S. (2022). Detection of targets in filtered noise: whitening in space and spatial frequency. *JOSA A*, 39(4), 690-701.
- [J3] **Zhang, A.**, Liao, Z., Chen, R., & Wang, D. W. (2018). Suppression of quantum noises in coherent atom lithography through squeezing. *JOSA B*, 35(4), 752-758.
- [J2] Fang, Z. X., Chen, Y., Ren, Y. X., Gong, L., Lu, R. D., **Zhang, A.**, Zhao H., & Wang, P. (2018). Interplay between topological phase and self-acceleration in a vortex symmetric Airy beam. *Optics express*, 26(6), 7324-7335.

- [J1] He, R., Hua, J., **Zhang, A.**, Wang, C., Peng, J., Chen, W., & Zeng, J. (2017). Molybdenum disulfide–black phosphorus hybrid nanosheets as a superior catalyst for electrochemical hydrogen evolution. *Nano letters*, 17(7), 4311-4316.

Seminar Talks

- [S6] **Zhang, A.** (2023) Phase-Dependent Asymmetry of Pattern Masking in Natural Images. Center for Nonlinear Dynamics (CNLD) Group Talk.
- [S5] **Zhang, A.** (2023) Phase-Dependent Asymmetry of Pattern Masking in Natural Images. Center for Perceptual Systems (CPS) Trainee Talk.
- [S4] **Zhang, A.** (2022) Detection of Targets in Filtered Noise: Whitening in Space and Spatial Frequency. Center for Nonlinear Dynamics (CNLD) Seminar.
- [S3] **Zhang, A.** (2021) The Human Visual System Whitens in Space But Not in Spatial Frequency. Center for Perceptual Systems (CPS) Trainee Talk.
- [S2] **Zhang, A.** (2020) The Human Visual System Whitens in Space But Not in Spatial Frequency. Candidacy Talk, Department of Physics, the University of Texas at Austin.
- [S1] **Zhang, A.**, Da-Wei Wang (2017) Suppression of quantum noises in coherent atom lithography through squeezing. TAMU-Princeton-Baylor Summer Symposium on Quantum Science and Engineering.

Poster Presentations

- [P4] **Zhang, A.**, & Geisler, W. S. (2023) Phase-Dependent Asymmetry of Pattern Masking in Natural Images Explained by Intrinsic Position Uncertainty. Natural Environment, Tasks, and Intelligence (NETI) Workshop and Vision Science Society (VSS) Conference.
- [P3] **Zhang, A.**, & Geisler, W. S. (2022) Detection of Targets in Complex Backgrounds: Partial Whitening, Reliability Weighting, and Intrinsic Position Uncertainty. Vision Science Society (VSS) Conference.
- [P2] **Zhang, A.**, & Geisler, W. S. (2020) The Human Visual System Whitens in Space But Not in Spatial Frequency. Vision Science Society (VSS) Conference.
- [P1] **Zhang, A.**, Da-Wei Wang (2017) Suppression of quantum noises in coherent atom lithography through squeezing. TAMU-Princeton-Baylor Summer Symposium on Quantum Science and Engineering.

Peer Reviews

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|------|------------------------------------------------|
| 2024 | Optics Continuum, ISSN: 2770-0208 |
| 2023 | Applied Optics, ISSN: 1559-128X |
| 2023 | Biomedical engineering online, ISSN: 1475-925X |

TEACHING EXPERIENCE

2022 Fall Assistant Introductor (as insturctor of record) for Introductory Physical Science: Mechanics and
- 2023 Spring Heat (PS 303), the University of Texas at Austin

2022 Advanced Certificate of Teaching, Teaching Preparation Series at the Center for Teaching and
Learning, the University of Texas at Austin

2019 Spring Teaching Assistant for Laboratory for Electricity and Magnetism, Light, Atomic and Nuclear
- 2020 Spring Physics (PHY 117N), the University of Texas at Austin

2018 Fall Teaching Assistant for Experiments in Mechanics (PHY 101L), the University of Texas at
Austin

2017 Teaching Assistant for Introduction to Programming in C (lecture-lab course), the University of
Science and Technology of China

MENTORING EXPERIENCE

2022 Spring Research Mentor for the Directed Reading Program in Physics, the University of Texas at Austin

PROFESSIONAL EXPERIENCE

2020 Summer Data Scientist Intern, Clairvoyant Networks, Inc.

2019 Summer Data Analyst Intern, Clairvoyant Networks, Inc.

LEADERSHIP EXPERIENCE

2021 Fall President of Longhorn Chi Alpha Christian Fellowship, the University of Texas at Austin
- 2022 Spring

2016 Fall Vice President of Students' Union at the School of Life Sciences, the University of Science and
- 2017 Spring Technology of China