Curriculum Vitae Anqi Zhang

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Center for Perceptual Systems

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EDUCATION

2018 - Present	PhD Program in Physics, The University of Texas at Austin. Supervisors: W. S. Geisler, E.
	Florin (Expecting Graduation: December 2024)

2023 MS in Statistics, The University of Texas at Austin

2018 BS in Physics, The University of Science and Technology of China

RESEARCH EXPERIENCE

Positions

2021 - Present	Graduate Researcher at the Center for Theoretical and Computational Neuroscience, The Uni-
	versity of Texas at Austin
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 Mi-
	croscale, 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

- [S7] **Zhang, A.** (2024) Understanding Covert Search in Noise Backgrounds Using Heuristic Decision Analysis. Vision Science Society (VSS) Conference.
- [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

- [P5] Geisler, W. S. & **Zhang, A.** (2024) Bayesian Heuristic Decision Analysis of Visual Search. Vision Science Society (VSS) Conference.
- [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

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

TEACHING EXPERIENCE

2022 Fall	Assistant Instructor (as the instructor of record) for Introductory Physical Science: Mechanics
- 2023 Spring	and 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

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.

of Science and Technology of China

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
- 2017 Spring	and Technology of China