

Antonio Fernández

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Academic Positions

2022 – **Postdoctoral Fellow**
Department of Psychology
Center for Perceptual Systems
Center for Theoretical & Computational Neuroscience
University of Texas at Austin
Advisor: Franco Pestilli

Education

2016 – 2022 **PhD**, Psychology, Cognition & Perception
New York University
Advisor: Marisa Carrasco

2016 – 2020 **MPhil**, Psychology, Cognition & Perception
New York University

2011 – 2015 **BS**, Psychology
University of Florida

Funded Research

2022 – 2026 NIH Blueprint Diversity (D-SPAN) K00 Award, NINDS
8K00MH134411-03: \$ 344,887 total direct cost awarded

2021 – 2022 NIH Blueprint Diversity (D-SPAN) F99 Award, NINDS
F99NS120705: \$81,272 total direct cost awarded

Awards & Honors

2019 NIH NEI Visual Neuroscience Training Program Trainee

2018 NYU Dean's Travel Grant

2016 NYU McCracken Fellow

2016 NYU Dean's Fellowship

2016 NYU Opportunity Fellowship

2016 NYU Summer Research Fellowship

Publications

Journal Articles

- 6 Palmieri, H, **Fernández**, A., & Carrasco, M (2023). Microsaccades and temporal attention at different locations of the visual field. *Journal of Vision*, 23(5), 6-6.
- 5 **Fernandez A** Hanning, N.M. & Carrasco M (2023). Transcranial magnetic stimulation to frontal but not occipital cortex disrupts endogenous attention. *Proceedings of the National Academy of Sciences*, 120 (10), e2219635120

Publications (continued)

- 4 **Fernandez A**, Okun S & Carrasco M (2022). Differential effects of endogenous and exogenous attention on sensory tuning. *Journal of Neuroscience*, 42(7), 1316-1327
- 3 **Fernandez A**, & Carrasco M (2020). Extinguishing exogenous attention via transcranial magnetic stimulation. *Current Biology*, 30,1-7.
- 2 **Fernandez A**, Li HH & Carrasco M (2019). How exogenous spatial attention affects visual representation. *Journal of Vision* 19(11), 4-4.
- 1 **Fernandez A**, Denison RN & Carrasco M (2019). Temporal attention improves perception similarly at foveal and parafoveal locations. *Journal of Vision* 19(1):12, 1-10.

Preprints

- 2 Hanning, NM, **Fernandez, A**, & Carrasco, M (2023). Dissociable roles of human frontal eye fields and early visual cortex in presaccadic attention—evidence from TMS. *bioRxiv*, 2023-02.
- 1 Xue, S, **Fernández, A**, & Carrasco, M. (2023). Featural representation and internal noise underlie the eccentricity effect in contrast sensitivity. *bioRxiv*, 2023-04.

Conference Presentations

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| SfN 2022 | Hanning, N.M. Fernandez, A. & Carrasco, M. When and where does TMS affect presaccadic attention? |
| VSS 2022 | Fernandez, A. Hanning, N.M. & Carrasco, M. Transcranial magnetic stimulation to rFEF reduces endogenous attentional modulations |
| VSS 2022 | Xue, S. Fernandez, A. & Carrasco, M. Do sensory tuning functions differ between the fovea and periphery? |
| VSS 2022 | Palmieri, H. Fernandez, A. & Carrasco, M. How temporal attention affects microsaccades around the visual field |
| TeaP 2022 | Hanning, N.M. Fernandez, A. & Carrasco, M. Occipital transcranial magnetic stimulation reduces presaccadic attention |
| SfN 2021 | Fernandez, A. & Carrasco, M. Does the visual cortex play a causal role in endogenous covert attention? |
| VSS 2021 | Fernandez, A. Okun S & Carrasco, M. Differential effects of endogenous and exogenous attention on sensory tuning |
| VSS 2020 | Fernandez, A. & Carrasco, M. Extinguishing attention via transcranial magnetic stimulation |
| VSS 2019 | Fernandez, A. , Li HH, & Carrasco, M. How exogenous spatial attention affects visual representation. |
| VSS 2018 | Fernandez, A. , Denison, R., & Carrasco, M. Temporal attention improves perception at foveal and parafoveal locations equally. |

Invited Talks

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| 2022 | UT Austin Center for Perceptual Systems meeting |
| 2022 | Stanford Vision Brunch |
| 2017 | NYU Cognition & Perception mini-convention |

Professional Memberships

2017 – Vision Science Society
2021 – Society for Neuroscience

Teaching & Mentoring

2019 Teaching Assistant Advanced Psychological Statistics (NYU PSYCH-UA 11)
2019-2020 Mentor Sara Okun (NYU Honors Thesis Student)

Reviewing

eLife
Frontiers in Human Neuroscience
Journal of Neuroscience
Proceedings of the National Academy of Sciences (PNAS)
Scientific Reports

Graduate Coursework

Simoncelli 2016 Mathematical Tools for Neural and Cognitive Science
Maloney 2016 Neuroeconomics & Decision Making
Carrasco 2017 Advanced Seminar in Attention & Perception
Maloney 2017 Linear Systems & Fourier Methods
Heeger 2017 Perception
Landy 2017 Psychophysics
Curtis 2018 Behavioral & Cognitive Neuroscience
Winawer 2018 Computational Modeling of Visual Circuits
Movshon & Shapley 2020 Visual Neuroscience