Dr. Michael Chini	
Associate Professor	
The Obio State University	abini 1@asu adu
Columbus OH 43210 USA	https://physics.osu.edu/lean
	https://physics.osu.edu/icap
Citizenship: USA	
EDUCATION	
University of Central Florida, Orlando FL	
Ph.D. in Physics	2010-2012
Dissertation: "Characterization and Application of Isolat	ed Attosecond Pulses"
Advisor: Zenghu Chang	
Kansas State University Manhattan KS	
Ph.D. Candidate in Physics	2007-2010
Advisor: Zenghu Chang	2001 2020
McGill University, Montreal QC (Canada)	
B.Sc. in Physics (Great Distinction)	2003-2007
Thesis: "Forces, Charges, and Light Emission During th	e Rupture of Adhesive Contacts"
Minor: Music Technology	
Advisor: Roland Bennewitz	
FMPI OVMENT	
<u>ENIL LOTIVIEN</u> Department of Physics The Ohio State University	
Associate Professor (with tenure)	2024-present
Associate 1 foressor (with tenure)	202 <b>4</b> -present
Department of Physics. University of Central Florida	
Associate Professor (with tenure)	2020-2024
Assistant Professor	2015-2020
CDEOL de Cellere effortier et Distances University of Com	(
CREOL, the College of Optics and Photonics, University of Cen.	rai Fioriaa 2017-2024
Secondary Joint Appointment	2017-2024
Laser Plasma Laboratory, Townes Laser Institute, University of	Central Florida
Senior Research Scientist	2014-2015
Supervisor: Martin Richardson	
Institute for the Frontier of Attosecond Science and Technology	University of Central Florida
Postdoctoral Research Associate	2012-2014
Supervisor: Zenghu Chang	
Per company	
HONORS AND AWARDS	
Optica Fellow	2024
Optica, The Optical Society	
Early Career Research Award	2018
U.S. Department of Energy, Office of Science	

Erasmus+ Guest Professorship Friedrich-Schiller Universität, Jena	2018
Young Investigator Program Award U.S. Air Force Office of Scientific Research	2016
Ralph E. Powe Junior Faculty Award Oak Ridge Associated Universities	2016

## SELECTED PUBLICATIONS

A full list of publications can be found on my <u>Google Scholar page</u>. \* indicates graduate student co-author \*\* indicates undergraduate student co-author

- 1. Truong, T.-C.\*, Beetar, J. E.\* & <u>Michael Chini</u> "Light-field synthesizer based on multidimensional solitary states in hollow-core fibers." Opt. Lett. 48, 2397-2400 (2023). *Selected as an Editor's Pick*.
- Liu, Y., Beetar, J. E.\*, Nesper, J.\*, Gholam-Mirzaei, S.\* & <u>Michael Chini</u> "Single-shot measurement of few-cycle optical waveforms on a chip" Nature Photon. 16, 109-112 (2022). *Highlighted in Nature Photonics News & Views:* "An optical oscilloscope for the mid-infrared," <u>https://www.nature.com/articles/s41566-021-00952-2</u>.
- 3. Beetar, J. E.\*, Nrisimhamurty, M., Truong, T.-C.\*, Liu, Y. & <u>Michael Chini</u> "Thermal Effects in Molecular Gas-Filled Hollow-Core Fibers." Opt. Lett. 46, 2437 (2021).
- Liu, Y., Gholam-Mirzaei, S.\*, Beetar, J. E.\*, Nesper, J.\*, Yousif, A.\*, Nrisimhamurty, M. & <u>Michael</u> <u>Chini</u> "All-optical sampling of few-cycle infrared pulses using tunneling in a solid." Photon. Res. 9, 929 (2021). *Selected as an Editor's Pick.*
- Beetar, J. E.\*, Madugugula, N. M., Truong, T.-C.\*, Nagar, G. C., Liu, Y., Nesper, J.\*, Suarez, O.\*\*, Rivas, F.\*\*, Wu, Y., Shim, B. & <u>Michael Chini</u> "Multi-Octave Supercontinuum Generation and Frequency Conversion based on Rotational Nonlinearity." Sci. Adv. 6, eabb5375 (2020). *Highlighted by Optics & Photonics News:* "Toward Attosecond Science with Workaday Lasers".
- Liu, Y., Beetar, J. E.\*, Hosen, M. M., Dhakal, G., Sims, C., Etienne, M. B.\*\*, Kabir, F., Dimitri, K., Regmi, S., Kaczorowski, D., Liu, Y., Pathak, A. K., Neupane, M. & <u>Michael Chini</u> "Time- and Angle-Resolved Photoemission Spectroscopy using an Ultrafast Extreme-Ultraviolet Source at 21.8 eV." Rev. Sci. Instrum. 91, 013102 (2020).
- Jiang, S., Gholam-Mirzaei, S.\*, Crites, E.\*\*, Beetar, J. E.\*, Singh, M.\*, Liu, R., <u>Michael Chini</u> & Lin, C.-D. "Crystal symmetry and polarimetry of high-order harmonics in ZnO." J. Phys. B: At. Mol. Opt. Phys. 52, 225601 (2019).
- You, Y. S., Yin, Y., Chew, A., Ren, X., Gholam-Mirzaei, S.\*, <u>Michael Chini</u>, Chang, Z. & Ghimire, S. "High-harmonic generation in amorphous solids." Nature Commun. 8, 724 (2017). *Highlighted by DOE Science News Source:* "A Potential New and Easy Way to Make Attosecond Laser Pulses: Focus a Laser on Ordinary Glass," <u>http://www.newswise.com/doescience/?article\_id=681997</u>.

- Li, J., Ren, X., Yin, Y., Zhao, K., Chew, A., Cheng, Y., Cunningham, E., Wang, Y., Wu, Y., <u>Michael Chini</u> & Chang, Z. "53-attosecond x-ray pulses reach the carbon K-edge'." Nature Commun. 8, 186 (2017). *Highlighted by Laser Focus World: "Once again, CREOL researchers set record for shortest light pulse," <u>http://www.laserfocusworld.com/articles/2017/08/once-again-creol-researchers-set-record-for-shortest-light-pulse.html.</u>*
- You, Y. S., Wu, M., Yin, Y., Chew, A., Ren, X., Gholam-Mirzaei, S.\*, Browne, D. A., <u>Michael</u> <u>Chini</u>, Chang, Z., Schafer, K. J., Gaarde, M. B. & Ghimire, S. "Laser waveform control of petahertz electron dynamics in solids." Opt. Lett. 42, 1816 (2017).

## MEMBERSHIPS AND SERVICE ACTIVITIES

## **Memberships**

American Physical Society, Optical Society of America, IEEE, IEEE Photonics Society, APS National Mentoring Community, European Optical Society

## Selected Service Activities

Member, APS Division of Laser Science Carl E. Anderson Dissertation Award Selection Committee (2022present)

Member-at-Large, APS Division of Laser Science (2022-present)

Member, Department of Energy LaserNetUS Facilities Committee (2021-2024)

Co-chair, 8<sup>th</sup> International Conference on Attosecond Physics (2019-2022)

Instructor, Florida Prison Education Program (2018-2024)

Mentor, APS National Mentoring Community (2016-present)