

ÁNGEL RAFAEL SOSA MUÑIZ

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Areas of Specialty: Philosophy of Physics and Metaphysics.

Areas of Competence: Philosophy of Religion and Virtue Ethics.

EDUCATION

University of Texas at El Paso El Paso, TX
M.A., Philosophy (GPA: 4.0/4.0) Expected December 2025
Thesis: *Lorentz Invariance and Quantum Coordination: A Neo-Aristotelian Framework for Entanglement and Relativity*
Summa cum laude

Universidad Autónoma de Ciudad Juárez Ciudad Juárez, Chih.
B.S., Physics June 2022
Thesis: *A Beginning? An Analysis of the Evidence for a Temporal Origin of the Universe.*
Summa cum laude

Instituto Diocesano de Teología de Ciudad Juárez Ciudad Juárez, Chih.
Certificate, Philosophy June 2022
Magna cum laude

RESEARCH EXPERIENCE

University of Texas at El Paso El Paso, TX
Department of Philosophy August 2024– Present

- Researching quantum hylomorphic models that aim to reconcile quantum mechanics with special relativity by exploring the implications of violations of Outcome and Parameter Independence in Bell's theorem.

Universidad Autónoma de Ciudad Juárez Ciudad Juárez, Chih.
SPS Undergraduate Researcher, Department of Physics January 2019 - January 2022

- Conducted research on the 21-cm hydrogen line, designing and building a functional radio telescope on the US-Mexico border for its observation. This work received the 2019 SPS Chapter Research Award.
- Reviewed key literature on the BGV Theorem, as well as Robert Koons' and Alexander Pruss' theories on Causal Finitism and multiple cosmological models, which formed the basis of my undergraduate thesis that received *Summa cum laude* honors from the department.

TEACHING EXPERIENCE

University of Texas at El Paso

Teaching Assistant, Department of Philosophy

El Paso, TX

January 2024 - Present

- Assisted in teaching undergraduate students in “Introduction to Philosophy” and “Ethics” courses. I worked with groups of 250 students divided into four sections.

Instituto México de Ciudad Juárez

Full Time High School Teacher

Ciudad Juárez, Chih.

January 2023 – Present

- Full-Time High School teacher at a Catholic School, teaching Logic, Physics, and Computer Science; responsible for course preparation, classroom instruction, student mentoring, and supervising senior research projects.

Instituto Bíblico-Teológico Benedicto XVI

Lecturer, Theological Studies

Ciudad Juárez, Chih.

August 2021 – Present

- Instructor of Mariology, Introduction to Sacred Scripture, and Pentateuch; responsible for course preparation and delivering classroom instruction, with a weekly teaching load of 2 hours.

Instituto Filosófico San Justino Mártir

Lecturer and Founding Member

Ciudad Juárez, Chih.

August 2023 – December 2023

- Founding member and Logic teacher. My responsibilities included serving as the liaison with the diocesan episcopate to obtain course content approval and teaching Logic classes, covering topics from Aristotelian Logic to the fundamentals of Modal Logic.

Universidad Autónoma de Ciudad Juárez

Instructor and U. Teaching Assistant, Department of Physics

Ciudad Juárez, Chih.

August 2019 - April 2022

- Served as the primary instructor in Astronomy and Basic Physics workshops offered by the University to general public as part of the Physics Department’s science outreach programs. These workshops had an average attendance of 30 participants and were held on summer weekends.
- Served as a teaching assistant during the final years of my undergraduate studies for courses in Calculus, Differential equations, Conceptual Physics, and General Physics, taught at introductory levels for Physics and Mathematics Majors. My responsibilities included providing tutoring to students to help reinforce the theoretical foundations of physics.

PUBLICATIONS

- Forthcoming, 2025. *Lorentz Invariance and Quantum Coordination: A Neo-Aristotelian Framework for Entanglement and Relativity*. Open Access Theses & Dissertations, University of Texas at El Paso.
- *A Classical Ontology for Quantum Mechanics*. In Progress. (Draft Available)
- *An Analogical Model for “Lo Mexicano”*: Moving around the Porphyrian Tree. In Progress. (Draft Available)
- *Who are the Ones with the Power?* In Progress. (Draft Available)

PRESENTATIONS

- “Who are the ones with the Power?”. *North American Society for Social Philosophy*, University of Texas at El Paso – Universidad Autónoma de Ciudad Juárez, Ciudad Juárez, Chih., July 2025.
- “Lo mexicano como “Lo Apasionado”: Una Tercera Vía para conformar la Identidad Mexicana”. *Society of Mexican-American Philosophy*, University of Portland, Portland, OR, June 2025.
- “Locality and Action at a Distance: Metaphysical Reflections on Bell’s Theorem”. *UTEP’s Grad Expo*, El Paso, TX, April 2025.
- “Uncaused Infinite Regress”. *UACJ’s Scientific Research Expo*, Ciudad Juárez, Chih. May 2022.
- “Construction of a radio telescope for the 21 cm line”. *Congreso Nacional de Física*, Tijuana, Baja Cal., October 2021.

INVITED LECTURES

- “The Böckenförde’s Dilemma: An Analysis on the Liberal-Democratic State”. Invited Presentation, *American Philosophical Association Pacific Division Meeting*, Expected April 2025.
- “The concept of ‘God’ in Nietzsche’s Writings.” Invited Lecture, *Instituto México de Ciudad Juárez*, Ciudad Juárez, Chih., March 2025.
- “Brief Commentary on Thomas Aquinas’ treatise *De Aeternitate Mundi* and Vilenkin’s Proposals on the Beginning of the Universe.” Invited Lecture, *Aeterni Patris International Conference*, Lima, Peru, January 2021.

HONORS & AWARDS

- Master of Arts: *Summa Cum Laude* 2025
- OAS-UTEP Scholarship for Academic Excellence. 2024
- Undergraduate Thesis: *Summa Cum Laude*. 2022
- UACJ Award for Best Undergraduate Research. 2022
- SPS Chapter Research Award (\$2,000). 2019
- UACJ’s Annual Recognition for Academic Excellence (Continued). 2017 – 2022

ACADEMIC SERVICE

- Advisor of Research Projects of High School Students. 2023 – Present
- Referee at Persuasive Speech Contest, Instituto México. 2023 – 2025
- Organizer of the Thomistic Institute Reading Group and talks, UTEP. 2025
- Proofreader for Prof. Noell Birondo’s translation *Mexico Unveiled*, UTEP. 2025
- Referee at Debate Contest, Instituto México. 2024
- Workshop Coordinator, UACJ’s Astronomy Group. 2019 – 2022
- Undergraduate Teaching Assistant, UACJ. 2020 – 2022
- Secretary of Physics Students’ Association, UACJ. 2019 – 2020

LEADERSHIP & OUTREACH

- President of the Thomistic Institute Chapter at UTEP. 2024 – 2025
- Coordinated humanitarian campaigns to distribute food supplies to indigenous communities in the Sierra of Chihuahua. 2024
- Instructor of UACJ’s Astronomy Group. 2018 – 2022

PROFESSIONAL AFFILIATIONS

- Philosophy of Physics Society – Member. 2025 – Present
- American Catholic Philosophical Association – Member. 2025 – Present
- North American Society for Social Philosophy – Member. 2025 – Present
- Society of Mexican-American Philosophy – Member. 2025 – Present
- Thomistic Institute at UTEP – President. 2025 – Present
- Juarez’s Physics Society – Member. 2024 – Present
- National Society of Physics Students (SPS) – Member. 2019 – 2022
- Mexican Society of Physics – Member. 2019 – 2022

PROFESSIONAL EXPERIENCE

AMD Automatización y Procesos Industriales
Quality Engineer, Quality Control Department

Ciudad Juárez, Chih.
July 2022 - January 2023

- Verification and design of industrial manufacturing processes for medical products to ensure compliance with the quality standards established by NOM ISO 9001:2015.

PUBLIC PHILOSOPHY

Horizonte de Eventos

2021 – Present

YouTube Channel on Philosophy, Science and Religion

- Creation of Philosophical and Scientific content for general audience.
- Interviews with scholars about related topics.
- Dialogues between philosophers and scholars about related topics.

Exsurge Domine

Blog on Philosophy, Science and Religion

2019 – Present

- Author of blog entries on topics related to philosophy, science and religion.
- Wrote book reviews.
- Over 3,000 readers.

REFERENCES

Prof. Deepanwita Dasgupta
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Prof. Francisco Rodríguez OFM
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