

Mind-Brain Group
Institute for Culture and Society
University of Navarra
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Areas of Specialization: Neuroethics, Cognitive Science (esp. Philosophy of Mind).

Career and Education

Experience:

Mar 2021–Present: Research Fellow in Neuroethics, Institute for Culture and Society at the University of Navarra and Tatiana Foundation International Center for Neuroscience and Ethics (CINET), Spain

Sep 2018–Mar 2021: Assistant Professor of Psychology, Department of Psychology, European University of Valencia, Spain

Nov 2019: Visiting Assistant Professor of Psychology, National Institute of Criminal Sciences, Mexico

Education (Degrees):

Ph.D. in Logic and the History and Philosophy of Science, National Distance Education University (UNED), Spain, 2016

B.S./M.S. (*Licenciado*) in Biology, University of Valencia, Spain, 2006

Education (Certificates and Courses):

Teaching Certificate (*Certificado de Aptitud Pedagógica*; graduate certificate), University of Valencia, Spain, 2007

Honors, Recognitions, and Fellowships

Honors:

2021–Present: Invited Professor, Latin American Observatory for Human Rights and Enterprises, Externado University of Colombia.

Recognitions:

2020: Accreditation as Assistant Professor (*Profesor Ayudante Doctor*), National Agency for Quality Assessment and Accreditation (ANECA), Spain.

2018: Recognition of one six-year period of research (*sexenio de investigación*), National Commission for the Evaluation of Research Activity (CNEAI), Spain.

Fellowships:

2021–Present: Research Fellowship in Neuroethics, Institute for Culture and Society at the University of Navarra and Tatiana Foundation International Center for Neuroscience and Ethics (CINET), Spain.

Publications

Books:

García-López, E., Muñoz, J. M., & Andorno, R. (Eds.). (2022, forthcoming). *Neurorights and mental freedom: Emerging challenges to debates on human dignity and neurotechnologies*. Frontiers.

Muñoz, J. M., García-López, E., & Rusconi, E. (Eds.). (2020). *Neurolaw: The call for adjusting theory based on scientific results*. Frontiers.

Book Chapters:

Muñoz, J. M. (2021, in press). Filosofía para el neuroderecho: Cerebro, mente y acción. In E. García-López & A. I. Ruiz (Coords.), *Neuroderecho y psicopatología forense, tomo I*. INACIPE.

Muñoz, J. M. (2020). La causalidad mental: Un problema filosófico esencial para el neuroderecho. In E. García-López (Coord.), *Derecho penal y neurociencia* (pp. 237–250). INACIPE.

Muñoz, J. M. (2020). Neurotecnologías, control mental y derechos humanos. In P. Baños (Auth.), *El dominio mental* (pp. 483–495). Ariel.

Special Issues and Sections:

Muñoz, J. M., & Villar, V. M. (Eds.). (2021, forthcoming). Current challenges in neuroethics [Special section]. *Scio*, (21).

Articles in Journals:

Muñoz, J. M., & Marinaro, J. Á. (2021, in press). Implicaciones para los neuroderechos de la disparidad axiológica entre sesgos algorítmicos y neurodesarrollo. *Acta Psiquiátrica y Psicológica de América Latina*, 67(3).

Muñoz, J. M., & Ruiz, A. I. (2021). En defensa de la neuroprevención delictiva (es decir, contra la predicción). *La Ley (Suppl. Innovación & Derecho)*, 2021(3), 5–6.

Ruiz, A. I., & Muñoz, J. M. (2021). Neuroprevention: Developing legal policies in risk assessment without aspiring to predict crime. *The Journal of Science & Law*, 9(1), 1–6.

Mercurio, E., García-López, E., Morales-Quintero, L. A., Llamas, N. E., Marinaro, J. Á., & Muñoz, J. M. (2020). Adolescent brain development and progressive legal responsibility in the Latin American context. *Frontiers in Psychology*, 11, Article 627.

Muñoz, J. M., García-López, E., & Rusconi, E. (2020). Editorial: Neurolaw: The call for adjusting theory based on scientific results. *Frontiers in Psychology*, 11, Article 582302.

Ruiz, A. I., & Muñoz, J. M. (2020). Neuroprevención: Un nuevo paradigma para el estudio de la reincidencia delictiva. *Revista Penal*, (46), 221–229.

Ruiz, A. I., & Muñoz, J. M. (2020). Reincidencia delictiva: ¿Neuropredicción o neuroprevención? *El Mundo del Abogado*, 22(259), 6–11.

Muñoz, J. M. (2019). Chile—Right to free will needs definition. *Nature*, 574(7780), 634.

Villar, V. M., & Muñoz, J. M. (2019). El libre albedrío y la búsqueda de la felicidad. *Scio*, (16), 61–82.

Muñoz, J. M. (2018). Causalidad mental y neurociencia: El modelo de la poda semántica. *Theoria*, 33(3), 379–399.

Muñoz, J. M. (2017). Somatic markers, rhetoric, and post-truth. *Frontiers in Psychology*, 8, Article 1273.

Muñoz, J. M. (2015). Mecánica cuántica y libre albedrío: Cinco cuestiones fundamentales. *Principia*, 19(1), 65–92.

Muñoz, J. M. (2013). Neurofilosofía y libre albedrío. *Daimon*, (59), 57–70.

Muñoz, J. M. (2012). Hacia una sistematización de la relación entre determinismo y libertad. *Daimon*, (56), 5–19.

Articles in Magazines, Newspapers, and Websites:

Muñoz, J. M. (2021, June 13). *¿Qué puede hacer la neurociencia (y qué no) para prevenir el crimen?* The Conversation.

Muñoz, J. M. (2021, May 28). *Optogenética para recuperar la visión: Grandes esperanzas llenas de cautela*. SINC.

Conference Papers:

Muñoz, J. M. (2021). Neurociencia y libre albedrío: Cinco cuestiones fundamentales. In *Proceedings Seventh World Conference on Metaphysics* (pp. 629–634). Editorial Fundación Fernando Rielo.

Muñoz, J. M. (2020). Libertad sin posibilidades alternativas: Los casos Frankfurt. In *Proceedings GKA Human 2020* (p. 51). GKA Ediciones.

Muñoz, J. M. (2020). ¿Qué son los neuroderechos? In *Proceedings GKA Techno 2020* (p. 33). GKA Ediciones.

Muñoz, J. M. (2019). Bucles extraños, conciencia y libre albedrío. In E. Nájera, A. de Murcia, & J. Pulla (Eds.), *Interessos filosòfics del present* (pp. 133–146). Societat de Filosofia del País Valencià.

Muñoz, J. M. (2019). Pinceladas sobre la neuroética del libre albedrío en España. *Cuadernos de Bioética*, 30(100), 354.

Book Reviews:

Muñoz, J. M. (2021, in press). [Review of the book *The Physics of Emergence*, by R. C. Bishop]. *The Philosophical Quarterly*.

Muñoz, J. M. (2020). [Review of the book *Biology and subjectivity: Philosophical contributions to non-reductive neuroscience*, edited by M. García-Valdecasas, J. I. Murillo, & N. F. Barrett]. *Philosophical Psychology*, 33(7), 1045–1048.

Fiction and Poetry Works:

Muñoz, J. M. (2021). Tamañas dimensiones. *Nagari*, 2021(2).

Muñoz, J. M. (2020). X-volución. *El Narratorio*, 5(55), 57–60.

Presentations and Talks

Keynote Talks:

“Should free will be introduced as a human right?,” at the III International Colloquium on Philosophy of Neuroscience, ANPOF Work Group on Philosophy of Neuroscience, Brazil, June 2021.

Invited Talks:

“Reincidencia criminal: ¿hacia la neuroprevención?,” at the International Forum “Neurociencia y Derecho,” National Institute of Criminal Sciences, Mexico, August 2021.

“Neuroprevención: hacia nuevas perspectivas sobre la reincidencia criminal,” at the Neuroethics Program’s Permanent Seminar, Center for Philosophical Research, Argentina, July 2021.

“Hacia el consenso internacional sobre los neuroderechos: retos específicos del derecho al libre albedrío,” at the round table “Neuroderechos en perspectiva,” Externado University of Colombia, May 2021.

“Optogenética y decodificación cerebral: aspectos éticos en el marco de los nuevos ‘neuroderechos,’” at the Mind-Brain Group’s Permanent Seminar, University of Navarra, Spain, May 2021.

“Procesos de decisión y libre albedrío,” at the International Seminar “La neurociencia y su relación con el derecho,” United Nations Institute for Training and Research, Argentina, April 2021.

“Neuroética,” at the 2nd Research Conference of the Faculty of Philosophy and Humanities, Catholic University of Valencia, Spain, April 2021.

“El libre albedrío y la identidad personal como neuroderechos: desafíos filosóficos y socioculturales,” at the International Seminar “Derecho penal y comportamiento humano: avances desde la neurociencia y la inteligencia artificial,” University of Castilla-La Mancha, Spain, January 2021.

“‘Neurorights’: el neuroderecho a través del espejo,” at the Permanent Seminar on Neurolaw and Forensic Psychopathology, National Institute of Criminal Sciences, Mexico, June 2020.

“Neuroderechos, ¿sí o no?,” at the Permanent Seminar on Neurolaw and Forensic Psychopathology, National Institute of Criminal Sciences, Mexico, November 2019.

“Genes, neuronas y violencia: el libre albedrío frente al determinismo fatalista,” at the 4th Cycle of Talks “El papel de la psicología en la impartición de justicia,” Judicial Power of Mexico City, Mexico, November 2019.

“Filosofía para el neuroderecho: cerebro, mente y acción,” at the Permanent Seminar on Neurolaw and Forensic Psychopathology, National Institute of Criminal Sciences, Mexico, November 2019.

“Neuroderechos: el libre albedrío como paradigma de su dificultad regulatoria,” at the 2nd Conference on Neuroscience in Criminal Law, National University of La Matanza, Argentina, November 2019.

“Fundamentos filosóficos del neuroderecho,” at the 1st Conference on Neuroscience in Criminal Law, National University of La Matanza, Argentina, October 2018.

“El libertarismo frente a los experimentos ‘tipo Libet,’” at the Science, Reason and Faith Group’s Permanent Seminar, University of Navarra, Spain, September 2016.

“¿Somos escultores de nuestro cerebro?: emergencia contextual, sistemas complejos y causalidad mental,” at the Mind-Brain Group’s Permanent Seminar, University of Navarra, Spain, May 2016.

Contributed Talks:

“Libertad sin posibilidades alternativas: los casos Frankfurt,” at the 9th International Conference on Humanities, Global Knowledge Academics, Spain, November 2020.

“¿Qué son los neuroderechos?,” at the 10th International Conference on Technology, Science, and Society, Global Knowledge Academics, Spain, October 2020.

“Neurotecnologías y derechos humanos” (with V. M. Villar), at the 2nd Conference of the Society of Christian Philosophers (SoFiC), Catholic University of Valencia, Spain, September 2020.

“Sobre el libre albedrío: ¿qué es el incompatibilismo?,” at the 8th International Conference on Human Sciences, Autonomous University of Madrid, Spain, December 2019.

“Pinceladas sobre la neuroética del libre albedrío en España,” at the 12th International Conference of the Spanish Association of Bioethics and Medical Ethics (AEBI), CEU Cardenal Herrera University, Spain, October 2019.

“Perspectives on neurolaw and neuroethics from Spain,” at the 19th Annual Conference of the International Association of Forensic Mental Health Services (IAFMHS), Canada, June 2019.

“Neurociencia y libre albedrío: cinco cuestiones fundamentales,” at the 7th World Conference on Metaphysics, Pontifical University of Salamanca, Spain, October 2018.

“Bucles extraños, conciencia y libre albedrío,” at the 22nd Valencian Conference of Philosophy, University of Alicante, Spain, March 2018.

“¿Es la libre voluntad un producto del inconsciente? Benjamin Libet,” at the 19th Conference of the Philosophical Society of Castilla-La Mancha (SFCM), University of Castilla-La Mancha, Spain, March 2018.

“Contenido mental y neuroplasticidad,” at the 2nd International Conference of the Spanish Network of Philosophy (REF), University of Zaragoza, Spain, September 2017.

Media Appearances

“Neurotecnologías: creando alucinaciones,” interview at the TV show *Cuarto Milenio*, Season 15, Program 21, *Cuatro* channel, Spain, February 9, 2020.

Research Projects and Groups

As Full Member:

2021–Present: “Mente-cerebro: biología y subjetividad en la filosofía y en la neurociencia contemporáneas,” principal investigator: José Ignacio Murillo, University of Navarra, Spain.

2020–Present: “Espacios de progresión de las neurociencias en el derecho: aplicación en el campo de los derechos humanos, derecho penal, ejecución de la pena, neurociencia forense y neurotecnologías,” principal investigator: José Ángel Marinaro, National University of La Matanza, Argentina.

2019–Present: “Derecho penal y comportamiento humano,” principal investigator: Eduardo Demetrio, University of Castilla-La Mancha, Spain.

2019–Present: “Emoción, cognición, acción,” principal investigator: Alfredo Esteve, Catholic University of Valencia, Spain.

2019: “Convivencia escolar: educación emocional para profesores,” principal investigator: Virginia Romero, European University of Valencia, Spain.

2018–2019: “Las neurociencias y su receptividad en el proceso penal, en el derecho penal juvenil y en la ejecución de la pena. Encuadre ético de sus incidencias,” principal investigator: José Ángel Marinaro, National University of La Matanza, Argentina.

As External Collaborator:

2016–2021: “Mente-cerebro: biología y subjetividad en la filosofía y en la neurociencia contemporáneas,” principal investigator: José Ignacio Murillo, University of Navarra, Spain.

2017: “Neurociencias en el derecho penal: traslación vinculante de las proposiciones emergentes de la investigación empírica de las ciencias del cerebro,” principal investigator: José Ángel Marinaro, National University of La Matanza, Argentina.

Supervising and Teaching

Theses:

2019–2021: Two master’s degree final theses supervised at the European University of Valencia, Spain.

2019–2020: Five bachelor’s degree final theses supervised (two co-supervised) at the European University of Valencia, Spain.

Undergraduate Courses:

2021: “Estructura y función del cuerpo humano” (one semester with shared responsibility), for B.S. in Physiotherapy, European University of Valencia, Spain.

2021: “Fisiología” (one semester with shared responsibility), for B.S. in Psychology, European University of Valencia, Spain.

2019–2021: “Neuropsicología” (two semesters as sole instructor and one semester with shared responsibility), for B.S. in Psychology, European University of Valencia, Spain.

2019–2021: “Biología” (two semesters as sole instructor), for B.S. in Criminology, European University of Valencia, Spain.

Extension Courses:

2021–Present: “Neuroderecho” (one semester with shared responsibility), United Nations Institute for Training and Research, Argentina.

2017–2019: “Neurociencia y libre albedrío” (three semesters with shared responsibility), National Distance Education University (UNED), Spain.

Lectures:

“La optogenética: fundamentos y retos ético-legales,” at the graduate course “Derecho penal y comportamiento humano: avances desde la neurociencia y la inteligencia artificial,” University of Castilla-La Mancha, Spain, January 2021.

Talk at the graduate course “Proceso de solicitud de sexenios de investigación,” European University of Valencia, Spain, January 2021.

“De la neuroética al neuroderecho: algunas cuestiones de actualidad,” at the undergraduate course “Valores Éticos,” B.S. in Psychology, European University of Valencia, Spain, December 2019.

Talk at the inaugural lesson of the M.S. in Forensic Psychopathology and the Justice System, National Institute of Criminal Sciences, Mexico, November 2019.

Service and Memberships

Administrative and Coordination Responsibilities:

2021–Present: Academic Secretary of the Mexican Association of Neuroethics (AMNE).

2021–Present: Coordinator of the Working Group on Neurorights in Ibero-America, Mexican Association of Neuroethics (AMNE).

Editorial Appointments:

2018–Present: Review Editor for the journal *Frontiers in Psychology* (for the section on Theoretical and Philosophical Psychology).

Refereeing:

Journals: *Anuario Filosófico*, *Cuestiones Constitucionales*, *Daimon*, *Frontiers in Psychology*.

Evaluation and Advice:

2019–2020: Member of the specialized academic committee for the development of the study plan for Ph.D. in Neurolaw and Forensic Psychopathology, National Institute of Criminal Sciences and National Institute of Neurology and Neurosurgery, Mexico.

Examining:

2021: One master’s degree final thesis examined at the University of Navarra, Spain.

2019–2021: Fifteen master’s degree final theses examined at the European University of Valencia, Spain.

2019–2020: Seven bachelor’s degree final theses examined at the European University of Valencia, Spain.

Memberships:

Societies (current membership): Association for the Scientific Study of Consciousness (ASSC), International Neuroethics Society (INS), Mexican Association of Neuroethics (AMNE), Spanish Society for Logic and the Methodology and Philosophy of Science (SLMFCE).

2021–Present: Working Group on Neurorights in Ibero-America, Mexican Association of Neuroethics (AMNE).