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EDUCATION

PhD in Philosophy Of Science

2019

National Autonomous University of Mexico, Mexico City, Mexico.

Concentration in logic and philosophy of science,

Project: “Working with inconsistencies: Paraconsistent formal tools for inconsistencies between theory and observation”

Doctoral Supervisor: Luis Estrada-González (UNAM)

Doctoral committee: Xavier de Donato Rodríguez (Universidad de Santiago de Compostela),

Francisco Hernández Quiroz (UNAM).

MA in Philosophy Of Science

2014

National Autonomous University of Mexico, Mexico City, Mexico.

Thesis *A Classification for Functional and Inconsistent Scientific Theories: Scope and Limitations*

Concentration in logic and philosophy of science; graduated with honors 3.9 G.P.A.

Supervisors: Atocha Aliseda-Llera (UNAM) and Mathieu Beirlaen (UNAM).

Bachelor’s Degree in Philosophy

2010

Universidad Veracruzana, Xalapa de Enriquez, Veracruz, Mexico

Thesis *Gödel and Paraconsistency: The road to non-triviality*

Concentration in logic and analytic philosophy; graduated with honors 3.8 G.P.A

Supervisor: Vanessa Salas del Ángel (Universidad Veracruzana).

AREAS OF SPECIALIZATION

General philosophy of science, philosophy of logic.

AREAS OF COMPETENCE

History of science, logic, philosophy of physics, epistemology.

PUBLICATIONS

BOOKS AND EDITED COLLECTIONS

- (joint with Luis Estrada-González) *Beyond Toleration? Inconsistency and Pluralism in the Empirical Sciences*, special issue of *Humana.Mente Journal of Philosophical Studies*, Issue 32 - August 2017.

REFEREED ARTICLES

- “Are you a selective-realist dialetheist without knowing it?”, *Revista Colombiana de Filosofía de la Ciencia*, Vol. 38, 2019 (forthcoming).
- (joint with Michéle Friend) “Keeping Globally Inconsistent Scientific Theories Locally Consistent”, In: Carnielli W., Malinowski J. (eds) *Contradictions, from Consistency to Inconsistency*. Trends in Logic (Studia Logica Library), vol 47. Springer; pp 53-88, 2018.
- (second author|Joint with Luis Estrada- González) “The possibility and fruitfulness of a debate on the principle of non-contradiction”, In: Carnielli W., Malinowski J. (eds)

Contradictions, from Consistency to Inconsistency. Trends in Logic (Studia Logica Library), vol 47. Springer; pp 33-51, 2018.

- (first author | Joint with Luis Estrada-González) “May the Reinforcement Be with You: On the Reconstruction of Scientific Episodes”, *Journal of the Philosophy of History*, 12(2): 259-283, 2018.
- “Holism, Inconsistency Toleration and Inconsistencies between Theory and Observation”, *Humana Mente* 32:117-147, 2017.

PROCEEDINGS PAPERS

- “Inconsistent Reasoning in the Sciences and Strategic-Logical Pluralism” forthcoming in *Southwest Philosophical Studies*, 2020.
- “Chunk and Permeate vs. Estructuras Parciales: Sobre como modelar la tolerancia a la inconsistencia en las ciencias empiricas” (Chunk and Permeate vs. Partial Structures: On how to model inconsistency toleration in empirical sciences), in *Rutas Didácticas y de Investigación en Lógica, Argumentación y Pensamiento Crítico*, Academia Mexicana de Lógica, Mexico, pp. 335-349, 2016.
- (First author, joint with Luis Estrada-González) “La Importancia de Ser Parcial” (The Importance of Being Partial), Teresita Mijangos (ed.), *Memorias Electrónicas del V Simposio Internacional de Investigación en Lógica y Argumentación (SIILA)*, Academia Mexicana de Lógica, México, pp. 122-135, 2015.
- (Second author, joint with Luis Estrada-González) “La (in)consistencia de los infinitesimales Bernoullianos” (The (in)consistency of the bernoullian infinitesimals), Fernando Macías Romero *et al.*, eds., *Memorias del Segundo Congreso Internacional de Matemáticas y sus Aplicaciones*, Benemérita Universidad Autónoma de Puebla: Mexico, pp. 195-200, 2015.

WORK IN PROGRESS | UNDER REVIEW

- “Understanding the many lives of historical reconstructions in science: Some reflections on understanding, exemplifying and reinforcing”.
- “Inconsistency toleration and the different faces of ignorance in science”.

RESEARCH STAYS

- Member of the Associate Students Program-Institute for Philosophical Research, UNAM (March 2013 –).
Supervisors: Prof. Atocha Aliseda Llera (2013-2015), Luis Estrada-González (2015–).
- *Ghent University*, Ghent, Belgium (June-July, 2018)
Supervisor: Prof. Diderik Batens.
Ghent University, Ghent, Belgium (September-December, 2017)
Supervisor: Prof. Diderik Batens.
Ghent University, Ghent, Belgium (March-June, 2014)
- Supervisors: Prof. Joke Meheus and Prof. Erik Weber.

AWARDS

- Graduate Essay Prize 2017, SWIP-Analytic Mexico (November 2017). Essay “Is it possible to reason sensibly from a trivial theory?” (in Spanish).

- *Best Presentation Award at the 37th Dutch-Flemish Day of Philosophy*, Dutch Research School of Philosophy (OZSW) and the Vrije Universiteit Amsterdam (September 2017). Talk: “Classicalists vs. Paraconsistentists: Unfolding the secret similarities”.
- Honoric mention, First Graduate-Undergraduate dissertation *Prize “Arte, Ciencia, Luz”*, Universidad Veracruzana (December 2012). Category: Bachelor Thesis. Title: “Gödel and Paraconsistency: The road to Non-Triviality” (in Spanish) –written and defended in 2010.
- Finalist in the *Latin-American Olympiad of Logic*, Guadalajara, Mexico 2010.

GRANTS AND FELLOWSHIPS

- CONACyT –National Grant for doctoral studies 2015-2019.
- HOPOS 2018 Travel grant.
- CONACyT –International Grant for research stays (October) 2018 (Declined).
- CONACyT –International Grant for research stays (June) 2018.
- CONACyT –International Grant for research stays 2017.
- ESSLII 2017 fee waiver and accommodation grant (Declined).
- UNAM-PAPIIT project grant for newly graduate students in 2015.
- UNAM-PAPIIT project grant for enrolled postgraduate students 2014.
- CONACyT –International Grant for research stays 2014.
- CONACyT—National Grant for masters studies 2012-2014.
- Summer Research for undergraduate students—Mexican Academy of Sciences 2010.

ADDITIONAL EDUCATION

- Summer School on Mathematical Philosophy for Female Students (2018)
LMU- Munich Center for Mathematical Philosophy, Munich, Germany.
- Pre-Ma Program (2011)
EF International School, San Francisco, CA.

CONFERENCE ACTIVITY

INVITED TALKS

- “Contradiction, triviality, inconsistency toleration and other misunderstandings in the empirical sciences”, *6th World Congress and School on Universal Logic*, Workshop ‘Reflections on Paraconsistency’, June 25, 2018.
- “Classicalists vs. Paraconsistentists: Tolerating too many coincidences and almost no difference” (in Spanish), *SWIP-Analytic Mexico inaugural event*, March 28, 2017.

PAPERS PRESENTED (PEER REVIEWED)

- “Is there anything special about the type of defectiveness involved in Big Data? Some reflections on ignorance and Astrophysics”, *International Association for Computing and Philosophy – Annual Meeting 2019* Mexico City, Mexico, June 5-7, 2019.
- “Can we have a hierarchical model of Scientific Understanding? A response to Batens”, *Understanding Defectiveness in the Sciences*, UNAM, Mexico, June 2-4, 2019.
- “Inconsistent Reasoning in the Sciences and Strategic-Logical Pluralism”, *70th Annual Meeting of the New Mexico-Texas Philosophical Society*, San Antonio, Texas, USA, April 5-6, 2019.
Comments by: Dra. Mary Gwin (San Diego Mesa College).
- “Rational Choice: When and how is it rational to go-paraconsistent in science?”, *Normativity across Disciplines*, UNAM, Mexico, October 21-23, 2018.

- “Understanding inter-theoretic contradictions and the many lives of historical reconstructions”, *XII International Congress of the International Society for the History of Philosophy of Science HOPOS 2018*, Groningen, The Netherlands, 9-12 July 2018.
- “Anomalies vs. Inconsistencies between Theory and Observation: Some important distinctions”, *V Conference by Women in Philosophy*, Amsterdam, Holland, 5-6 July 2018.
- “Paraconsistent Heuristics, Inconsistent Information, and Scientific Practice”, *Society for Philosophy of Science in Practice (SPSP) Seventh Biennial Conference*, Gent, Belgium, June 30-July 2nd, 2018.
- “Paraconsistent Reasoning Strategies and the Epistemology of the Inconsistency Toleration”, *Logic in the Wild*, Gent, Belgium, November 9-10, 2017.
- “(Intertheoretic) Inconsistency toleration: Are we really avoiding explosion?”, *Inconsistency and Scientific Pluralism*, Gent, Belgium, November 8, 2017.
- “Classicalists vs. Paraconsistentists: Unfolding the secret similarities”, *37th Dutch-Flemish Day of Philosophy*, Amsterdam, Holland, September 16, 2017.
- “Mixing inconsistent information from different theories: A new challenge for Chunk and Permeate”, *17th Latin American Symposium on Mathematical Logic*, Puebla, Mexico, June 26-30, 2017.
- “Inconsistencies between Theory and Observation and Chunk and Permeate”, *3rd IIFs-UNAM Philosophy Graduate Conference*, Mexico, February 8, 2017.
- “Chunk and Permeate vs. Partial Structures: On how to model inconsistency toleration in empirical sciences” (in Spanish), *XIX International Meeting of Didactics of Logic and International Symposium on Research in Logic and Argumentation*, UNAM-Mexico, November 15-18, 2016.
- “What does it mean to tolerate inconsistencies? From logic to philosophy of science” (in Spanish), *Workshop Logics of Discovery and Scientific Creativity*, October 19, 2016.
- “Inconsistencies between Theory and Observation and the Limits of Chunk and Permeate”, *Conference Trends in Logic XVI: Consistency, Contradiction, Paraconsistency and Reasoning*, Campinas, Brazil. September 11-14, 2016.
- (Second author, joint work with Luis Estrada-González) “On the possibility and fruitfulness of a debate on the PNC”, *Conference Trends in Logic XVI: Consistency, Contradiction, Paraconsistency and Reasoning*, Campinas, Brazil. September 11-14, 2016.
- (First author, joint work with Luis Estrada-González) “What is so Bad about Inconsistent Science?”, workshop *The Place of Inconsistent Science in Scientific Pluralism*, UNAM, Mexico. 5-6 September 2016.
- (First author, joint work with Luis Estrada-González) “The importance of being partial” (in Spanish), *XVIII International Meeting of Didactics of Logic and International Symposium on Research in Logic and Argumentation*, Guadalajara, November 10-13, 2015.
- “Inconsistency and theory choice in the reconstruction of scientific episodes: The case of heterogenesis and biogenesis”, *Testing Philosophical Theories Against the History of Science*, Oulu, Finland. September 21-22, 2015.
- (First author, joint work with Luis Estrada-González) “Inconsistency toleration in Biology: the case of Spontaneous Generation” (in Spanish), II Conference of the Iberoamerican Association of Philosophy of Biology, Valle de Bravo, Mexico, September 7-11, 2015.
- (Second author, joint work with Luis Estrada-González) “The (in)consistency of the bernoullian infinitesimals” (in Spanish), *Second International Conference of Mathematics and its Applications*, August 31-September 4, 2015.
- “Functional and Inconsistent Theories: A Classification”, *Paraconsistent Reasoning in Science and Mathematics*, Munich, Germany, 11-13 June 2014

- “Inconsistent Functional Scientific Theories: How to approach them” (in Spanish) at *First Associated Students Workshop*, Institute of Philosophical Research, UNAM, Mexico 2013.
- (First author, joint work with M.A. Vanessa Salas) “Teaching Logic to Undergraduates: A Teaching Proposal” (in Spanish), *XV International Meeting of Didactics of Logic*, Institute of Philosophical Research, UNAM, Mexico, 2011.
- “The revolution of ancient philosophy: An analysis of the figures that grounded it” (in Spanish), *XV Regional Meeting of Philosophy Students*, Tlaxcala, Mexico, February 23-27, 2010.
- “Medical Logic: A formal system for medical reasoning” (in Spanish), *XXVI National Meeting of Philosophy Students*, Aguascalientes, Mexico, September 14-19, 2009.
- “From Myth to Philosophy: A natural step or actual analytical work?” (in Spanish), *XXV National Meeting of Philosophy Students*, Puebla, Mexico, May 19-24, 2008.

COMMENTING

- “Law & Order: Ecology” (Georgia R. Rainer), *2nd IIFs-UNAM Philosophy Graduate Conference*, UNAM- Mexico, March 9-10, 2016.
- “Paraconsistency and the foundation of mathematics” (Cristian Andrés Romero Ramírez, in Spanish) *First National Conference of History and Philosophy of Logic and Mathematics*, February 23-26, 2015.

ORGANIZATION

- *Understanding Defectiveness in the Sciences*, UNAM, Mexico, June 3-4, 2019.
- *Graduate Students Colloquium of Philosophy of Science*, UNAM, Mexico, March 4-6, 2019.
- (with Cristian Alejandro Gutiérrez- Ramírez) *Normativity across Disciplines*, UNAM-Mexico, October 22-23, 2018.
- (with Diderik Batens, Joke Meheus, Dunja Šešelja and Federica Russo) *Inconsistency and Scientific Pluralism*, Gent, Belgium, November 8, 2017.
- (with Luis Estrada-González) Round table discussion “Current perspectives on inconsistency”, in *XIX International Meeting of Didactics of Logic and International Symposium on Research in Logic and Argumentation*, UNAM-Mexico, November 15-18, 2016.
- (with Luis Estrada-González) Workshop *Logical Space: Logical and Metaphysical Issues*, UNAM-Mexico, September 5-6, 2016.
- (with Luis Estrada-González) Workshop *The Place of Inconsistent Science in Scientific Pluralism*, UNAM-Mexico, September 5-6, 2016.
- *2nd IIFs-UNAM Philosophy Graduate Conference*, UNAM-Mexico, March 9-10, 2016.
- *1st IIFs-UNAM Philosophy Graduate Conference*, UNAM-Mexico, February 19-20, 2015.
- (with Laura Perez) *First Associated Students Workshop*, Institute of Philosophical Research, UNAM, Mexico 2013.

TEACHING EXPERIENCE

COURSE “FROM A PHILOSOPHICAL ARGUMENT TO THE ACADEMIC PAPER”(2018, 2019)
(Joint work with J. Emmanuel Mendoza-Bock)

- UNAM, Institute for Philosophical Research, Mexico City, Mexico.
Associate Students Program.
Co-Taught Different Levels of Analytical Skills to Philosophy Students | Critical thinking.

LOGICS IN THE SCIENCES (2018)

- UNAM, Institute for Philosophical Research, Mexico City, Mexico.
Certified program on logic and its philosophical applications (Diplomado de lógica).

Taught formal tools for the analysis of scientific reasoning.

LOGIC I -UNDERGRADUATE LEVEL (2015)

- *Universidad Autónoma del Estado De Morelos*, Cuernavaca, Morelos, Mexico.

TEACHING ASSISTANTSHIP (2013-2014)

- *UNAM*, Philosophy Department, Mexico City, Mexico.
Helped in Logic-I and Logic-II courses (with Prof. Atocha Aliseda Llera).
Prepare teaching materials.

TEACHING ASSISTANTSHIP (2012)

- *UNAM*, Science Department, Mathematics, Mexico City, Mexico.
Helped in a Propositional Logic Course.
Co-Taught Different Levels of Logical Skills to Students
Mentored Students in Logic.

PHILOSOPHY AND CONTEMPORARY THOUGHT-UNDERGRADUATE LEVEL (2012)

- *Universidad Popular Autónoma de Veracruz*, Oaxaca, Mexico.

EPISTEMOLOGY-UNDERGRADUATE LEVEL (2012)

- *Universidad Popular Autónoma de Veracruz*, Oaxaca, Mexico.

PHILOSOPHY—HIGH SCHOOL LEVEL (2010)

- *Instituto Libre de Comercio y Administración*, Oaxaca, Mexico.
Mentored a student who was a finalist in a National Philosophical Essay Contest.
Organized a Celebration of Philosophy Day

GREEK AND LATIN ETYMOLOGY—HIGH SCHOOL TEACHER (2010)

- *Instituto Libre de Comercio y Administración*, Oaxaca, Mexico.

TEACHING ASSISTANTSHIP (LOGIC II, III) -UNDERGRADUATE LEVEL (2008-2010)

- *Universidad Veracruzana*, Philosophy Department, Veracruz, Mexico.

SERVICES

ACADEMIC ACTIVITIES COORDINATED

- Philosophy of Science Reading group-UNAM. (2015—).
- Intensive Sessions for philosophical discussion and analysis –UNAM (2017 –)
- (with Luis Estrada-González) Intensive reading group on Paraconsistency, contradiction and negations-UNAM (2018).
- (with Cristian Alejandro Gutiérrez- Ramírez) Intensive reading group on Scientific Realism and Methodology –UNAM (2017).
- (with Luis Estrada-González) Intensive reading group on Inconsistent Science and Scientific Pluralism –UNAM (2016).

REFEREEING

- Refereed an articles on philosophy of science for *Synthese*. (2019)
- Refereed articles on philosophy of science for *Crítica: Revista Hispanoamericana de Filosofía*. (2018)
- Refereed articles on philosophy of science for *Tópicos, Revista de Filosofía* (ISSN: 2007-8498) (2017-).
- Refereed articles on philosophical logic for *Revista Graffylia* (official journal for the department of philosophy at the Meritorious Autonomous University of Puebla, Mexico) (2014-).

ACTIVITIES IN RESEARCH PROJECTS

- Member of UNAM-PAPIIT Research Project IN403719 "Intentionality to the end: a new plan for logical relevance" (2019—).

- Member of UNAM-PAPIIT Research Project IG400219 “Consciousness and normativity” (2019).
- Member of UNAM-PAPIIT Research Project IA401117 “Philosophical Aspects of Contra-Classical Logics” (2017, 2018).
- Member of UNAM-PAPIIT Research Project IA401717 “Pluralism and Normativity in Logic and Mathematics” (2017-2019).
- Member of UNAM-PAPIIT Research Project IA401015 “After Consequences. A Universalist View of Logic (I)” (2015, 2016).
- Member of UNAM-PAPIIT Research Project IN400514 “Logics of Discovery, Heuristic and Creativity in the Sciences” (2014-2016).