

CURRICULUM VITAE ET STUDIORUM

Luca Di Vincenzo

Work Experience

In progress	Chief Research Officer, bitCorp – Intelligence Creative Labs <i>Security R&D company specializing in offensive and defensive IT and Telco strategies.</i>
2020 - 2025	Information Technology Consultant, Alten Italia Information Technology Consultant - Intern, Alten Italia
2020 - 2024	Co-founder and Chief Executive Officer, Novalimb <i>Research and development company for innovative prosthetic solutions.</i>
2021 - 2022	Lecturer in Philosophy of Language, Philosophy of Mind and Bioethics Sapienza University of Rome
2015 - 2019	Digital Marketing Strategist, Affabula Communication

Research Experience

In progress	Independent Researcher, Sapienza University of Rome; Unit of Cognitive Primatology & Primate Center (CNR); Zoological Gardens of Rome and Fasano Designing and applying experimental protocols based on multimodal shift to assess perspective taking and Theory of Mind in Asian elephants and tufted capuchins.
2023	Visiting Scholar, Brooklyn College <i>Research carried out under the supervision of Robert Lurz on the epistemological problem of testing Theory of Mind in nonlinguistic animals.</i>
2019	Visiting Scholar, Texas A&M University <i>Research conducted under the supervision of José Luis Bermúdez on the interplay between perception, language, and cognition.</i>

Teaching Activity

2025	Guest lecture on Philosophy of Animal Mind: Nonhuman Experience and Communication, within the course Ethics and Life Sciences, BA in Philosophy, Sapienza University of Rome.
2024	Guest lecture on Animal Cognition 101: How Animals Think, Communicate, and Learn, within the course Philosophy in Global Perspective, BA in Global Humanities, Sapienza University of Rome.
2023	Guest lecture on Thinking about Thinking in Non-Linguistic Animals, within the course Theory of Mind in Animals and Humans: Philosophical and Scientific Issues, BA in Philosophy, Brooklyn College.
2022	Guest lecture on Meta-Representations and the Cognitive Unconscious, within the course History of Philosophy of Language, MA in Philosophy, Sapienza University of Rome.
2021	Guest lecture on Language and Meta-Representations, within the course Bioethics, MA in Philosophy, Sapienza University of Rome.
2021	Guest lecture on The Unconscious: From Freud to Cognitive Science, within the course History of Philosophy of Language, MA in Philosophy, Sapienza University of Rome.
2021	Guest lecture on Recursive Language and Meta-Cognition, within the course History of Brain and Mind Sciences, MA in Philosophy, Sapienza University of Rome.

Publications

- Being drafted Di Vincenzo, L. – *The Beastly Cocktail Party: Are Multimodal Shifts Evidence of Non-Human Theory of Mind?*
- Under review Di Vincenzo, L., & Conversano, S. – *Can Cross-Modal Binding Scaffold Theory of Mind? Using AI as a Benchmark for Social Cognition*
Chapter in Book
- Fortcoming Di Vincenzo, L.; Conversano, S.; Tirozzi, G. – *Balancing Privacy and Security: The Role of AI in Interagency Intelligence Databases*
Chapter in Book
- Fortcoming Di Vincenzo, L., & Conversano, S. (2025). *Ethical and Operational Advances in Military AI: The Role of Neurosymbolic and Cross-Modal Systems*. In S. Gouveia (Ed.), *Ethics in Artificial Intelligence: A Multidisciplinary Approach*. Bloomsbury.
- 2024 Theory of Mind in non-linguistic animals: a multimodal approach
Ph.d. Thesis: <https://hdl.handle.net/11573/1709919>
- 2024 *Assessing the theory of mind development in nonhuman primates to improve their well-being*
Abstract in journal: <https://doi.org/10.1163/14219980-950101AB>
- 2022 *Meta-representations in primates: a proposal for a multimodal approach in the study of language recursiveness*
Abstract in journal: <https://dx.doi.org/10.4000/primatologie.13512>

Conventions & Conferences

- 2025 Speaker at the *Rational Animals? Developmental, comparative, philosophical and methodological perspectives* conference
Multimodal Minds: Insights into Theory of Mind and Rationality Across Species.
- 2025 Speaker at the *5th International Conference on Philosophy of Mind*
Is Multimodal Processing Essential for Theory of Mind? Insights from Non-Human Animals and AI.
- 2025 Speaker at the *Rethinking ToM and ASD* conference
Theory of Mind and Autism Spectrum Disorder: Toward a Multimodal Constraint Hypothesis.
- 2025 Speaker at the *New Work on TOM 2 - interacting with LLMs* conference
Can Large Language Models Read Minds? A Multimodal Constraint Hypothesis.
- 2024 🏆 Speaker at the *14th National Conference of Research in Parks*
Investigating perceptual theory of mind in captive Asian elephants through Multimodal Shift: a pilot study
- 2024 Speaker at the 3rd International Conference on the Ethics of Artificial Intelligence
Enhancing Military AI: Cross-Modality's Role in Robustness, Debiasing, and Decision Making
- 2024 Poster presenter at the *XXX Conference of the Italian Society of Ethology*
*Assessing Theory of Mind in Asian Elephants (*Elephas maximus*) through Multimodal Shifts: a Pilot Study*
- 2024 Poster presenter at the 10th European Federation for Primatology meeting
Assessing the theory of mind development in nonhuman primates to improve their well-being
- 2024 Speaker at the *Italian National Institute of Health | Center for Behavioral Sciences and Mental Health*
Principles and Methods for the Investigation of the Theory of Mind in Non-Linguistic Animals
- 2024 Speaker at the *EAZA Animal Welfare Forum 204*
Understanding individual personality variations through theory of mind: implication for animal welfare.
- 2023 Speaker at the *13th National Conference of Research in Parks*
Enhancing conservation strategies: the role of multimodal shift in reintroduction and repopulation

- 2023 Speaker at the *Philosophy Society and Philosophy Department of Brooklyn College*
Panel discussion on the role of philosophy and its relationship with artificial intelligence.
- 2023 Speaker at the *Philosophy Society and Philosophy Department of Brooklyn College*
Exploring Philosophical Psychology: How do Animals Think?
- 2022 Speaker at the *12th National Conference of Research in Parks*
Animal Cognition in ex-situ and in-situ environments: the multimodal shift as evidence of mindreading ability
- 2022 Speaker at the *XXIX Conference of the Italian Society of Ethology*
Deliberate multimodal communication as evidence of meta-representational thinking in non-human animals.
- 2022 Co-organizer member of the international conference *Health: a popular or a scientific concept?*
organized by Sapienza University of Rome, Sorbonne Université, Initiative Humanités Biomédicales, Italian Philosophical Society and the “Edgar Morin” International Study Center for Philosophy of Complexity
- 2022 Scientific committee member of the conference *Normativity in Roma* organized by Sapienza University of Rome and the Providence College
- 2022 Poster presenter at the *Joint Conference of the European Federation for Primatology and the Gesellschaft Gesellschaft für Primatologie*
Do primates have recursive multimodal communication? Design of a multimodal pattern recognition experiment.
- 2022 Co-organizer of the Permanent Seminar in *History of Mind and Brain Sciences. Health sciences and complexity theories: transdisciplinary pathways*, Faculty of Philosophy, Sapienza University of Rome
- 2022 Co-organizer of the Permanent Seminar in *Philosophies of Language. Theories and history – Philosophies of language today. From a classic*, Faculty of Philosophy, Sapienza University of Rome
- 2021 Moderator for the AI Ethics Roundtable between *AI for People* and the *Montreal AI Ethics Institute*, CAIP’21
- 2021 Co-organizer of the Permanent Seminar in *History of Mind and Brain Sciences. Health sciences and complexity theories: transdisciplinary pathways*, Faculty of Philosophy, Sapienza University of Rome
- 2021 Co-organizer of the Permanent Seminar in *Philosophies of Language. Theories and history – Subjectivity and language in the 20th century*, Faculty of Philosophy, Sapienza University of Rome
- 2018 Relevant expert, the Ministry of Education, Universities and Research, “FUTURA – 3 days for the National Digital School Plan: training, debates, experiences”
- 2018 Guest Speaker, “The Village for the Earth”, Villa Borghese gardens
The most important environmental event in Italy, organized by Earth Day Italia and Movimento dei Focolari, under the patronage of the Ministry for Environment and UNESCO.
- 2018 Guest Speaker, “Co.Scienza”, The University of Trento
Project by student associations UNITIN and OWL – Open WetLab.
https://www.youtube.com/watch?v=TI_rqWJXQ8o&=&t=11s
- 2017 Guest Speaker, “Imperia Sgrun”, Imperia
Comics and visual arts festival, hosted in Imperia.

Education

- In progress Bachelor of Arts in Psychology, University of Perugia
- 2024 Whale Watching Guide, European Institute of Innovation for Sustainability (EIS)
A specialized course providing theoretical and practical skills in the sustainable observation and study of cetaceans, with a focus on marine biodiversity, monitoring techniques, and aquatic environmental protection.

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2024	Ph.D in Philosophy (Cognitive Science), Sapienza University of Rome <i>Graduated with a dissertation titled: "Theory of Mind in Non-Linguistic Animals: A Multimodal Approach."</i>
2024	Elite Growth Path – Intesa Sanpaolo B, SDA Bocconi School of Management
2020	Master of Arts in Philosophy (Philosophy of Language), Sapienza University of Rome (110/110 with honours) <i>Graduated with a thesis titled: "Perception, Language and Cognition: Meta-Representations and Logical Inferences in Non-Human Animals." Completed one year early. Recognized by the university as a highly deserving student.</i>
2018	Spring School, "Terrorism: Analysis and Prevention Methods", The Italian Society for International Organization <i>An intensive course providing theoretical and empirical tools to interpret international political dynamics, with contributions from experts in institutions, research, and journalism.</i>
2018	Bachelor of Arts in Philosophy (Logic), Sapienza University of Rome <i>Graduated with a thesis titled: "Artificial Consciousness: A Survey on the Reproducibility of Consciousness in Non-Biological Systems."</i>
2014	High School Diploma, Eugenio Montale Human Sciences High School <i>Curriculum focused on pedagogy, psychology, sociology, anthropology, and research methodology.</i>

Licenses & Certifications

2021	Certificate, "AI Product Manager Nanodegree Program", Udacity https://graduation.udacity.com/confirm/THHHQH2K
2021	Certificate, "Enterprise Design Thinking Co-Creator", IBM https://www.credly.com/badges/fc7de1e7-8812-4ce6-9bf6-6ac07718044f?source=linked_in_profile
2020	Certificate, "Daia & AI Essentials", IBM https://www.youracclaim.com/badges/10fb1df3-4480-405e-8f0f-d473512bfcdf?source=linked_in_profile
2020	Certificate, "Professional Scrum Master", ALTEN https://www.youracclaim.com/badges/c74a68e9-2912-42dd-a33f-94baa038986e/linked_in_profile
2020	Certificate, "Introduction to Cybersecurity", Cisco https://www.youracclaim.com/badges/1f15f0d8-4bcb-4c45-b628-0a8be3b20655?source=linked_in_profile
2020	Certificate, "Applied Data Science with Python – Level 2", IBM https://www.youracclaim.com/badges/c74a68e9-2912-42dd-a33f-94baa038986e/linked_in_profile
2020	Certificate, "Data Visualization Using Python", IBM https://www.youracclaim.com/earner/earned/badge/d4a173e0-159e-4d50-89b0-4408610fe365
2020	Certificate, "Data Analysis Using Python", IBM https://www.youracclaim.com/earner/earned/badge/e072a945-097d-40ad-a1be-932d601ed6bb
2020	Certificate, "Python for Data Science", IBM https://www.youracclaim.com/earner/earned/badge/c40a0344-c726-41b9-8839-7a920794be25
2020	Certificate, "Data Science Foundations – Level 2 (V2)", IBM https://www.youracclaim.com/badges/aca74b98-231e-4364-8719-d646c524af2c
2020	Certificate, "Data Science Foundations – Level 1", IBM https://www.youracclaim.com/badges/60b2c0f5-4dd4-47e1-b01c-d47b7573a20d
2020	Certificate, "Enterprise Design Thinking Practitioner", IBM https://www.youracclaim.com/badges/9f8c61c0-6c49-4f98-99f7-df8ac48dc2fe/linked_in_profile
2020	Certificate, "Enterprise Design Thinking - Team Essential for AI", IBM https://www.youracclaim.com/earner/earned/badge/4e0ff5f5-6cb1-4de2-b800-29831e22ef24

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2020	Certificate, “Responsive Web Design”, freeCodeCamp https://www.freecodecamp.org/certification/fcc76d6078b-7fd8-49cb-95e6-241a69b258b2/responsive-web-design
2020	Certificate, “Learn Git”, Codecademy https://www.codecademy.com/profiles/LucaDiVincenzo
2020	Certificate, “Learn the Command Line”, Codecademy https://www.codecademy.com/profiles/LucaDiVincenzo
2020	Certificate, “Learn JavaScript”, Codecademy https://www.codecademy.com/profiles/LucaDiVincenzo
2020	Certificate, “Learn Sass”, Codecademy https://www.codecademy.com/profiles/LucaDiVincenzo
2016	Certificate on Coursera, “Robotics: Aerial Robotics”, University of Pennsylvania https://www.coursera.org/account/accomplishments/verify/CHQ8L5GP64S5
2015	Certificate, “BLSD-PBLSD Executor”, ARES 118

Volunteer Experience

2020 - 2022	Artificial Intelligence Mastermind Coordinator, Start2Impact
2017 - 2022	Chairman and Co-Founder, EduTube Association <i>Non-profit organization promoting culture, the arts, and scientific and technical research.</i> https://www.edutube.it https://www.youtube.com/watch?v=fmf0fNPmIKE&amp;t=49s https://www.youtube.com/watch?v=FP3Q_7bf-dE
2015 - 2016	Volunteer, National Civil Service in partnership with <i>Arci Servizio Civile Roma</i> and <i>Eleusis NPO</i> <i>Engaged in educational and social inclusion activities aimed at promoting cultural participation in suburban areas.</i>
2015	Volunteer, Italian Association of Publishers <i>Participated in #ioleggoperché, Italy's largest national initiative promoting reading, organized by the Italian Publishers Association.</i>

Courses

2024	Summer School of Animal Welfare and Ethics Universities of Milan
2021	Foundation of Animal Mind Workshop Johns Hopkins Foundations of Mind Group
2021	International Student Course in Behavioural Biology Institut Francilien d’Ethologie
2017	Algorithms, Humans & Stock Markets: Flash Crashes Sapienza University of Rome
2016	Trieste Next 5th Edition European Salon of Scientific Research
2015	Algorithms, Humans & Stock Markets: The Financial Cyborg Sapienza University of Rome
2012	History of Criminology & Clinical and Social Criminology Popolar University of Rome
2011	Body Language Non-Verbal Communication Studies and Research Center

Grants, Honors & Awards

2024	1 st prize - Best oral presentation, <i>14th National Conference of Research in Parks</i>
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2023	Boost Your Ideas Business Award, Lazio Innova
2022	Up2Stars Business Award, Intesa Sanpaolo
2020	PhD scholarship, Sapienza University of Rome, Faculty of Philosophy
2020	2nd place, VGen Blockchain Disruption Challenge, Consulenza e Risorse S.r.l.
2019	Scholarship for the development of the MA thesis in a foreign country, Sapienza University of Rome, Faculty of Philosophy
2018	Front-End Web Development Google Scholarship, Udacity
2014	2nd place, Multidisciplinary Dramaturgy Contest “Agon Tote Kai Nun” – Eugenio Montale High School

Project

In progress	Evidence-Based Acting Project <i>Development of an evidence-based approach to acting technique. The project combines experimental research, actor training, and pedagogical design, aiming to ground performative practices in empirical findings on attention, emotion regulation, and embodiment.</i>
2017	Dedalo Project – Startup <i>Developed with the aim of reducing prosthesis production costs and simplifying customization using 3D scanning and printing technologies. The project was discontinued due to operational complications.</i> https://www.facebook.com/startupdedalo/

Languages

Italian	Native Speaker
English	Intermediate/Advanced
French	Basic
Spanish	Basic
Ancient Greek	Reading
Latin	Reading

Skills & Endorsements

Research, Agile Methodologies, Project Management, Risk Management, Search Engine optimization (SEO), Search Engine Marketing (SEM), Wordpress, JavaScript, Python, Sass, React.js, HTML, Cascading Style Sheets (CSS), Google Analytics, Bootstrap, Angular, Node.js, MATLAB, Go, MongoDB, MySQL, Management, Teamwork, Design Thinking, Public Speaking, Storytelling, Negotiation, Philosophy of Language, Philosophy of Mind, Philosophy of Science, Philosophy of Technology, Natural Language Processing (NLP), User Experience Design (UED), User Interface Design (UID), Cybersecurity.