**Christopher Timmermann (PhD)**

Post-doc

Centre for Psychedelic Research

Imperial College London

Division of Brain Sciences

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**SUMMARY**

Christopher Timmermann (PhD) obtained a BSc in Psychology in Santiago, Chile and an MSc in Cognitive Neuroscience at the University of Bologna in Italy. He is currently a post-doc at Imperial College London at the Centre for Psychedelic Research, where he leads the DMT Research Group. His empirical and theoretical work focuses on the neuroscience, psychiatry, psychology, and beliefs of psychedelics, their relationship to consciousness and applications in mental health. The work he has led has been published in high-regarded journals such as PNAS, Elife, and TICS, and has been widely covered by mass media outlets. He also founded and is the director of an educational non-profit in Chile, the ECOH Foundation.

**RESEARCH POSTS**

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| --- | --- | --- |
| Imperial College London | **Head of DMT Research Group.** Centre for Psychedelic Research | 2022-present |
| Imperial College London | **Research Fellow.** Centre for Psychedelic Research | 2024-present |
| Imperial College London | **Research Associate.** Centre for Psychedelic Research | 2020-2023 |
| Imperial College London | **Research Assistant**. Centre for Psychedelic Research | 2019-2020 |

**EDUCATION**

|  |  |  |
| --- | --- | --- |
| Imperial College London | **PhD** in Neuroscience and Neuropsychopharmacology | 2015-2020 |
| Univeristà di Bologna | **MSc** in Cognitive Neuroscience and Neuropsychological Rehabilitation | 2012-2014 |
| Pontificia Universidad Católica de Chile | **BSc** in Psychology | 2006-2010 |
| Pontificia Universidad Católica de Chile | **College** in Social Sciences and Humanities | 2004-2005 |

**AFFILIATIONS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Organization** | **Role** | **Years** | **Website** |
| Foundation for Visionary Science and Art | Scientific Board | 2024-present | <https://www.vsanda.org/> |
| Drug Science: Medical Psychedelics Research Working Group | Scientific Committee | 2023-present | <https://www.drugscience.org.uk/medical-psychedelics-working-group/> |
| ECOH: Foundation for the Study of Human Consciousness (an educational non profit in Chile) | Founder and President | 2020-present | <https://fundacionecoh.cl/> |
| EPRC: Emergent Phenomenological Research Consortium | Member | 2020-present | <https://theeprc.org/the-team/> |
| ALIUS: Interdisciplinary Research Group on the Diversity of Consciousness | Member | 2017-present | <https://www.aliusresearch.org/team.html> |
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**FUNDING AND ACADEMIC AWARDS**

FUNDING

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Organization** | **Award** | **Name of the project and role** | **Amount.** | **Years** |
| Tiny Blue Dot Foundation | The Science of Perception Box | **A comprehensive neuropsychological test of breathwork as a tool for trauma processing and mental well-being.**Co-investigator. Led by Martha Havenith | €850,000 | 2023-2026 |
| Mind and Life Foundation | European Varela Awards | **A neurophenomenological investigation of ego-dissolution induced by 5-MeO-DMT and different meditation practices.** Project lead and obtained funding. | €21,164 | 2023-2024 |
| Beckley Psytech | Donation | **Human brain effects of intranasal 5 methoxy N, N-Dimethyltryptamine (5-MeO-DMT), determined with high-density EEG.** Project Supervisor. | £150,000 | 2022-2024 |
| Anton Bilton | Donation | **Human brain effects of extended N, N-Dimethyltryptamine (DMT) determined via high-density EEG**. Project supervisor and led relationship with funder. | £500,000 | 2019-2024 |
| ANID (Chilean government) scholarship | Becas doctorado en el extranjero | **Human Brain Effects of DMT and associated psychedelics on the brain and mind determined via multimodal neuroimaging**. PhD funding, stipend, and research expenses. Project lead and obtained funding. | £271,568 | 2015-2019 |
| Universitá di Bologna scholarship | Unibo Azione 2 | MSc funding, and stipend. Led and obtained funding. | €22,118 | 2012-2014 |

ACADEMIC AWARDS

|  |  |  |  |
| --- | --- | --- | --- |
| **Organization** | **Award** | **Title of Presentation** | **Year** |
| Mind Foundation (Germany) award | Best oral presentation | DMT Neuroscience | 2021 |

**PUBLICATIONS** *\*shared first authorship*

**h-index 25 (Google Scholar)**

*2024*

**Timmermann C**., Zeifman R., Erritzoe D., Nutt D., Carhart-Harris R. (2024). Effects of DMT on mental health outcomes in healthy volunteers. *Scientific Reports*

Erritzoe D., **Timmermann C**., Godfrey K., Castro-Rodriguez P., Peill J., Carhart-Harris R., Nutt D., Wall M. (2024). Exploring the mechanisms of psychedelic action using neuroimaging. *Nature Mental Health*

Luppi AI., Girn M., Rosas FE., **Timmermann C.**, Roseman L., Erritzoe D., Nutt DJ., Stamatakis EA., Spreng RN., Xing L., Huttner WB., Carhart-Harris R. (2024) A role for the serotonin 2A receptor in the expansion and functioning of human transmodal cortex. *Brain*.

Mediano PA., Rosas FE., **Timmermann C.**, Roseman L., Nutt DJ., Feilding A., Kaelen M., Kringelbach ML., Barrett AB., Seth AK., Muthukumaraswamy S., Bor D., Carhart-Harris RL. (2024). Effects of external stimulation on psychedelic state neurodynamics. *ACS Pharmacology*

James E., Erritzoe D., Benway T., Joel Z., **Timmermann C**., Good, M., Agnorelli C., Weiss B.M., Barba T., Campbell G., Jones MB, Hughes C., Topping H., Boyce M., Rouledge C. (2024). Safety, tolerability, pharmacodynamic and wellbeing effects of SPL026 (dimethyltryptamine fumarate) in healthy participants: a randomized, placebo-controlled phase 1 trial. Frontiers in Psychiatry

*2023*

**Timmermann C**., Roseman L., Haridas S., Rosas F., Luan L., Kettner H., Martell J., Errtizoe D., Tagliazucchi E., Pallavacini C., Girn M., Alamia A., Leech R., Nutt D., Carhart-Harris R. (2023) Human Brain Effects of DMT determined via fMRI-EEG. *PNAS*

**Timmermann C**., Bauer P., Gosseries O., Vanhaudenhuyse A. Vollenweider F., Laureys S., Singer T., Antonova E., Lutz A. (2023). A neurophenomenological approach to non-ordinary states of consciousness: Hypnosis, meditation, and psychedelics. *Trends in Cognitive Sciences*

Luan L., Eckernas E., Ashton M., Rosas F., Uthaug M., Bartha A., Jagger S., Gascon-Peral K., Gomes L., Nutt D., Erritzoe D., Carhart-Harris R., **Timmermann C.** (2023) Psychological and physiological effects of extended DMT. *Journal of Psychopharmacology*

Lawrence D., DiBattista A., **Timmermann C.** (2023) N,N-Dimethyltryptamine (DMT)-occasioned familiarity and the Sense of Familiarity Questionnaire (SOF-Q) *Journal of Psychoactive Drugs*

Davis A., **Timmermann C.,** Ortiz Bernal A., Lancellotta R., Nayak S., Sepeda N., Nikoladis A., Griffiths R. (2023) Translation and initial psychometric evaluation of Spanish versions of three psychedelic acute effects measures: Mystical, challenging, and insight experiences. *Journal of Psychoactive Drugs*

Singleton SP., **Timmermann C**., Luppi A., Eckernas E., Roseman L., Carhart-Harris R., Kuceyeski A. (2023) Time-resolved network control analysis links reduced control energy under DMT with the serotonin 2a receptor, signal diversity, and subjective experience. *bioRxiv*

Pizzi S.D., Chiacchiaretta P., Sestieri C., Ferretti A., Tullo M.G., Della Penna S., Martinotti G., Onofrj M., Roseman L., **Timmermann C**., Nutt D.J., Carhart-Harris R., Sensi SL. 2023. LSD-induced changes in the functional connectivity of distinct thalamic nuclei. *NeuroImage*, *283*, p.120414.

McGovern HT., Grimmer H., Doss M., Hutchinson B., **Timmermann C**., Lyon A., Corlett P., Laukkonen R. (2023) The power of insight: How psychedelics may solicit false beliefs. *Psyarxiv*

Luppi A., Hansen JY., Adapa RM., Carhart-Harris RL., Roseman L, **Timmermann C.**, Golkowski D., Ranft A., Ilg R., Jordan D, Bonhomme V., Vanhandenhuyse A., Demertzi A., Jaquet O., Ali Bahri M., Alnagger N., Cardone P., Peattie A., Maktelow A., de Araujo D., Sensi S., Owen A., Naci L., Menon D., Misic B., Stamatakis E. (2023) In Vivo Mapping of Pharmacologically-induced Functional Reorganisation onto the Human Brain’s Neurotransmitter Landscape. *Science Advances*

Nozawa T., Sas M., Dolan D., Rajpal H., Rosas F., **Timmermann C**., Mediano PA., Honda K., Amano S., Miyake Y., Jensen HJ. (2023) Multiscale Coordination Dynamics Between Performers and Audience Characterize Innovative Experience in Western Classical Music Improvisation. *Psyarxiv*

Good M., Joel Z., Benway T., Routledge C., **Timmermann C**., Erritzoe D., Weaver R., Allen G., Hughes C., Topping H., Bowman A., James E. (2023) Pharmacokinetics of N, N-dimethyltryptamine in Humans. *European Journal of Drug Metabolism and Pharmacokinetics*

Eckernäs E., **Timmermann C**., Carhart‐Harris R., Röshammar D., Ashton, M. (2023). N, N‐dimethyltryptamine affects EEG response in a concentration dependent manner–a pharmacokinetic/pharmacodynamic analysis. CPT: Pharmacometrics & Systems Pharmacology

Eckernäs E., Koomen J., **Timmermann C**., Carhart‐Harris R., Röshammar D., Ashton M. (2023). Optimized infusion rates for N, N‐dimethyltryptamine to achieve a target psychedelic intensity based on a psichedélic and simulation framework. *CPT: Pharmacometrics & Systems Pharmacology*.

Pizzi S., Chiacchiaretta P., Sestieri C., Ferretti A., Onofrj M., Penna S., Roseman L., **Timmermann C**., Nutt D., Carhart-Harris R.,Sensi S. (2023) Spatial correspondence of LSD-induced variations of brain functioning at rest with serotonin receptor expression. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging

Carhart-Harris RL., Chandaria S., Erritzoe DE., Gazzaley A., Girn M., Kettner H., Mediano PA., Nutt DJ., Rosas FE., Roseman L., **Timmermann C**., Weiss B., Zeifman RJ., Friston KJ. (2023). Canalization and plasticity in psychopathology. *Neuropharmacology*

*2022*

**Timmermann C.,** Watts, R., and Dupuis, D. (2022). Towards psychedelic apprenticeship : Developing a gentle touch for the mediation and validation of psychedelic-induced insights and revelations. *Transcultural Psychiatry*

Lawrence DW, Carhart-Harris R., Griffiths R., & **Timmermann C.** (2022). Phenomenology and content of the inhaled N, N-dimethyltryptamine (N, N-DMT) experience. *Nature Scientific Reports*

Daws RE., **Timmermann C**., Giribaldi B., Sexton JD., Wall MB., Erritzoe D., Roseman L., Nutt D., & Carhart-Harris, R. (2022). Increased global integration in the brain after psilocybin therapy for depression. *Nature medicine*

Eckernäs E., **Timmermann C**., Carhart‐Harris R., Röshammar D., Ashton, M. (2022). Population pharmacokinetic/pharmacodynamic sicodéli of the psychedelic experience induced by N, N‐dimethyltryptamine–Implications for dose considerations. *Clinical and Translational Science*.

Rajpal H, Mediano PA, Rosas FE, **Timmermann C**, Brugger S, Muthukumaraswamy S, Seth AK, Bor D, Carhart-Harris RL, Jensen HJ. (2022). Psychedelics and schizophrenia: Distinct alterations to Bayesian inference. *Neuroimage*.

Spriggs MJ., Giribaldi B., Lyons T., Rosas F., Kärtner LS., Buchborn T., Douglass H., Roseman L., **Timmermann C.,** Erritzoe D., Nutt D., Carhart-Harris R. (2022). Body mass index (BMI) does not predict responses to psilocybin. *Journal of Psychopharmacology*

Peill JM., Trinci KE., Kettner H., Mertens LJ., Roseman L., **Timmermann C**., Rosas FE., Lyons T. & Carhart-Harris RL. (2022). Validation of the Psychological Insight Scale: A new scale to assess psychological insight following a psychedelic experience. *Journal of Psychopharmacology*

Watts R., Kettner, H., Geerts D., Gandy S., Kartner L., Mertens L., **Timmermann C.**, Nour M., Kaelen M., Nutt D., Carhart-Harris R & Roseman L. (2022). The Watts Connectedness Scale: a new scale for measuring a sense of connectedness to self, others, and world. *Psychopharmacology*

Cruzat J., Perl YS., Escrichs A., Vohryzek J., **Timmermann C**., Luppi A., Roseman L., Ibañez A., Nutt D., Carhart-Harris R., Tagliazzuchi E., Deco G and Kringelbach ML. (2022). Effects of classic psychedelic drugs on turbulent signatures in brain dynamics. *Network Neuroscience*

Eckernäs E., Bendrioua A., Cancellerin, C., **Timmermann C**., Carhart-Harris R., Hoffmann KJ., & Ashton M. (2022). Development and application of a highly sensitive LC-MS/MS method for simultaneous quantification of N, N-dimethyltryptamine and two of its metabolites in human plasma. *Journal of Pharmaceutical and Biomedical Analysis*

Gattuso JJ., Perkins D., Ruffell S., Lawrence AJ., Hoyer D., Jacobson LH., **Timmermann C**., Castle D., Rossell SL., Downey LA., Pagni BA. (2022) Default Mode Network Modulation by Psychedelics: A Systematic Review. *International Journal of Neuropsychopharmacology*

*2021*

**Timmmermann C**., Kettner H., Letheby C., Rosas F., Roseman L., Carhart-Harris RL. (2021) Psychedelics alter metaphysical beliefs. *Nature Scientific Reports*

Pallavicini C., Cavanna F., Zamberlan F., Alethia de la Fuente L., Sanz Perl Y., Arias M., Romero C., Carhart-Harris R., **Timmermann C**., Tagliazucchi E. (2021). Neural and subjective effects of inhaled DMT in natural settings. *Journal of Psychopharmacology*

Kettner H., Rosas FE., **Timmermann C**., Kartner L., Carhart-Harris RL., Roseman L. (2021). Psychedelic communitas: Intersubjective experience during psychedelic group sessions predicts enduring changes in psychological wellbeing and social connectedness. *Frontiers in Pharmacology*

Teixeira P., Johnson MW., **Timmermann C**., Watts R., Erritzoe D., Douglass H., Kettner H., Carhart-harris RL. (2021) Psychedelics and health behaviour change. *Journal of Psychopharmacology*

Martial C., Fontaine G., Gosseries O., Carhart-Harris R., **Timmermann C**., Laureys S., Cassol H. (2021) Losing the self in near-death experiences: The experience of ego-dissolution. *Brain Sciences*

Uthaug M., Davis AK., Haas TF., Davis D., Dolan SB., Lancelotta R., **Timmermann C**., Ramaekers JG. (2021) The epidemiology od mescaline use: Pattern of use, motivations for consumption, and perceived consequences, benefits, and acute and enduring subjective effects. *Journal of Psychopharmacology*

Kaertner LS, Steinborn MB, Kettner H, Spriggs MJ, Roseman L, Buchborn T., Balaet M., **Timmermann C**., Erritzoe D., Carhart-Harris RL. (2021) Positive expectations predict improved mental-health outcomes linked to psychedelic microdosing. *Nature Scientific Reports*

*2020*

**Timmermann C.** (2020). The effects of DMT and associated psychedelics on the human mind and brain. *PhD Thesis. Imperial College London.* [*https://doi*](https://doi)*.org/10.25560/91107*

**Timmermann C\***., Alamia A\*,Nutt D., VanRullen R., Carhart-Harris R. (2020). DMT alters cortical traveling waves. *Elife*

Schartner M., **Timmermann C**. (2020). Neural network models for DMT-induced visual hallucinations. *Neuroscience of Consciousness*

Gandy S., Forstmann M., Carhart-Harris RL., **Timmermann C**., Luke D., Watts R. (2020). The potential synergistic effects between psychedelic administration and nature contact for the improvement of mental health. *Health Psychology Open*

*2019*

**Timmermann C**., Roseman. Schartner, M., Milliere, R., Wiliams L., Erritzoe D., Muthukumaraswamy, S., Ashton, M., Bendrioua, A., Kaur, O., Turton, S., Nour, M., Day, C., Leech R., Nutt., Carhart-Harris R. (2019). Neural effects of the DMT experience as determined with multivariate EEG. *Nature Scientific Reports*

*2018*

**Timmermann C**., Roseman. Wiliams L., Erritzoe D., Martial C., Cassol H., Laureys S., Leech R., Nutt., Carhart-Harris R. (2018). DMT models near-death experiences in healthy volunteers. *Frontiers in Psychiatry.*

**Timmermann C**., Spriggs M., Kaelen M., Leech R., Nutt D., Moran R., Carhart-Harris R., Muthukumaraswamy S. (2018) LSD Modulates Effective Connectivity and Neural Adaptation Mechanisms in an Auditory Oddball Paradigm. *Neuropharmacology*

Haijen E., Kaelen M., Roseman L., **Timmermann C**., Kettner H., Russ S., Nutt D., Daws R., Hampshire A., Lorenz R., Carhart-Harris R. (2018) Predicting response to psychedelics: A prospective study. *Frontiers in Pharmacology.*

Kaelen M., Cunha B., Raine J., Evans L., **Timmermann C**., Rodriguez N., Feilding A., Nutt A., Carhart-Harris R. (2018) The Hidden Therapist: Evidence for a central role in music for psychedelic therapy. *Journal of Psychopharmacology*

*2016*

Garofalo S., **Timmermann C**., Battaglia., Maier M. E., di Pellegrino G. (2016) When timing matters: the role of mediofrontal ERPs in signalling timed dynamics of salient events. *Journal of Cognitive Neuroscience*

*2014*

**Timmermann, C**. (2014) Neurosciences and psychotherapeutic applications in the psychedelic research renaissance. *Revista Chilena de Neuropsiquiatría*

**BOOK CHAPTERS**

*2023*

**Timmermann C.** Open-Ended Enquiry of Psychedelic Experiences via First-Person Methodologies and Neurophenomenology. In: *Perspectives on Consciousness and Experience edited by Segev I., Berkovich-Ohana A., Segev N., Shulman, E., & Rudrauf D. MIT Press*

**SELECTED SPEAKER PRESENTATIONS**

INVITED SPEAKER/KEYNOTE

2023

-Taking Experience Seriously in Psychedelic Science and Practice (invited speaker). *Psychoactive Substances Symposium. University of Wisconsin, Madison. USA*

-Psychedelic Science and the Realization of Interdependence (invited speaker). *European Summer Research Institute. Mind and Life Europe*. *Italy*

-Deconstructing the Mind in Psychedelic States (invited speaker). *Psychedelic Science Conference. Denver, USA*

-The Neuroscience of DMT: Past Present and Beyond (invited speaker) *Psychedelic Science Conference. Denver, USA*

-Psychedelics, Consciousness and Mental Health (invited speaker). Friends of Imperial. *Imperial College London, UK*

-Introducción a la Ciencia Psicodélica (invited speaker). *Universidad de Chile, Chile.*

2022

-Human Neuroscience of DMT (invited speaker). *UC Berkeley.*

-DMT and the principal gradient of brain organization. University of Cambridge (invited speaker). *Organization of Human Brain Mapping. Cortical Gradients Workshop*.

-From DMT neuroscience to metaphysical beliefs: Can psychedelics provide insights into consciousness? (invited speaker). *Awareness Lectures in Psychedelic Science conference, Bern, Switzerland.*

-Psychedelics and consciousness: between science and spirituality (invited speaker). *University of Stockholm*

-Psicodélicos y conciencia (invited speaker). *Universidad Adolfo Ibañez. Santiago, Chile. Symposium: Neurociencias de la conciencia y sus transformaciones: Sueño, meditación y psicodélicos*

-Neurophenomenology in psychedelic research: Fostering an open-ended approach to psychedelic phenomena (invited speaker). University of Zurich. Phenomenological methods in neuroscience and consciousness.

2021

-Neurophenomenology of the psychedelic state (invited speaker). *University of Haifa. The Neurophenomenological lab studying brain, mind, and behavior.*

-Neuronal effects of DMT in the brain and mind (invited speaker). *King’s College. Psychiatry, Psychology and Neuroscience lab*

-Psychedelics, Neurophenomenology and Non-ordinary states of Consciousness (invited speaker). *University of Liege*. *GIGA Consciousness lab*

-Psychedelics, metaphysical beliefs and developing skilful *know-how* (invited speaker). *University of Exeter. Psychopharmacology and Addiction Research Centre*

-Exploring immersive states of consciousness (invited speaker). *UC San Francisco (UCSF), Neuroscape lab*

-Salud mental y usos terapéuticos de sustancias psicodélicas (invited speaker). *Universidad Austral de Chile. Faculty of Medicine*

2020

-Effects of DMT and related psychedelics in the human brain and conscious experience (invited speaker). *University of Wisconsin, Madison. The Wisconsin Institute for Sleep and Consciousness*

-DMT, neuroscience and therapeutic potential (invited speaker). *The Science of Consciousness conference*

2019

-Neurophenomenology of Psychedelic States (invited speaker). *University of Berlin*

-DMT: Neural correlates, phenomenology and sensed presences (invited speaker). *University of Geneva. Laboratory of Cognitive Neuroscience*

-Charting the Immersive: Neurophenomenology of the DMT Experience (invited speaker). *University of Michigan. Symposium on Psychedelic Neuroscience and Therapy*

-Neurociencias y usos sicodélicas de sustancas sicodélicas (invited speaker). *Universidad Católica de Chile*

-Neural Effects of DMT as determined via multivariate EEG (invited speaker). *Universidad de Buenos Aires*

2018

-Psychedelic phenomenology and associated brain activity as a model for dreaming (invited speaker). *Royal Society of Medicine*

-Exploring Consciousness Using Psychedelics (invited speaker). *New Scientist Festival*

-Dynamics of experience and brain activity in the DMT state (invited speaker). *Horizons conference*. *New York City*

-Neurophenomenology of the DMT state (invited speaker). *University of Cambridge.* *Bekinschtein lab*

-Brain activity, phenomenology and the sensed presence phenomenon (invited speaker). *Personification Across Disciplines conference. University of Durham*

-Dynamics of brain activity and conscious experience induced by DMT (invited speaker). *University of Trento*

2017

-Neurociencias y uso terapéuticos de sustancias psicodélicas (invited speaker). *Instituto de Filosofía y Ciencias de la Complejidad (IFICC)*

SEMINAR SPEAKER

*2023*

Can Psychedelics Provide Insights into Consciousness? *MIND Conference. Berlin, Germany*

The Neuroscience of DMT: Past Present and Beyond. *Breaking Convention. Exeter UK*

A Neurophenomenological Approach to Non-Ordinary States of Consciousness: Hypnosis, Meditation, and Psychedelics. *European Conference on Clinical Neuroimaging. Marseille, France.*

*2022*

Neural correlates of the DMT experience determined via simultaneous EEG-fMRI (seminar speaker). *Organization of Human Brain Mapping (OHBM) conference*.

Psychedelic apprenticeship in clinical practice, traditional contexts, and consciousness science (seminar speaker). *Interdisciplinary Conference on Psychedelic Research (ICPR)*

*2021*

Neural correlates of the DMT experience using simultaneous fMRI and EEG (seminar speaker). *Association for the scientific study of consciousness (ASSC) conference*

2020

Methodological approaches for the study of altered states of consciousness. (seminar speaker). *ALIUS Workshop*

2019

Effects of DMT in the brain and human experience (seminar speaker). *World Ayahuasca Conference. ICEERS*

2018

Human research with DMT (seminar speaker). *International Pharmaco EEG Conference (IPEG) University of Zurich*

Novel approaches in the bridging of fist person reports and neuronal activity in transitions of conscious states (seminar speaker).*ALIUS workshop. Ecole Normale Superiore*

Neurophenomenology of the DMT state (seminar speaker). *Association for the Scientific Study of Consciousness conference*

DMT como una herramienta de exploración neurocientífica y fenomenológica (seminar speaker). Plantas Sagradas de Latinoamerica conference.

2017

Dynamics of the Experience and Brain Activity Induced by DMT. (seminar speaker) *University of Turin*

Dynamic Transitions of Consciousness (seminar speaker). *ALIUS Workshop. University of Stanford*

2016

Processing of the Mismatch Negativity in the LSD state (seminar speaker) *International Pharmaco EEG Conference (IPEG) Nijmegen*

Processing of the Mismatch Negativity Under LSD (seminar speaker) *Interdisciplinary**Conference on Psychedelic Research. (ICPR)*

**POSTER PRESENTATIONS**

**Timmermann C**., Kettner H., Letheby C., Rosas F., Roseman L., Carhart-Harris R Can psychedelics alter metaphysical beliefs? ASSC conference. Holland 2022

Luan L., Eckernas E., Ashton M., Gascon Perai K., Bartha A., Jaggaer S., Errizoe D., Smith R., Nutt D., Carhart-Harris R. & **Timmermann C**. Psychological effects of extended DMT. ASSC conference. Holland 2022

Reydellet D., Nutt D., Carhart-Harris R. & **Timmermann C.** A source-reconstructed brain under DMT: Retracting th origin of the brain signal. ASSC conference. Holland 2022

Sanders JW., Milliere R. Nutt D., Carhart-Harris R. & **Timmermann C**. Micro-phenomenology of the intravenous DMT experience (preliminary results). ASSC conference. Holland 2022

**Timmermann C**., Baquedano C. (2021) Exploring the convergences between meditation and psychedelics for nature connectedness, pro-ecological behaviour and human development. Mind and Life. Summer Research Institute. USA. 2021

**Timmermann C**., Kettner H., Letheby C., Carhart-Harris R. Psychedelics and metaphysical beliefs. INSIGHT conference, Berlin. 2019

**Timmermann C**., Roseman L., Williams L., Erritzoe D., Nour M., Turton S., Day C., Muthulumaraswamy S., Feilding A., Leech R., Nutt D. Carhart-Harris R. Neurophenomenology of the DMT State. Mind& Life European Sumer Research Institute. Germany 2018

**Timmermann C**., Roseman L., Williams L., Erritzoe D., Nour M., Turton S., Day C., Muthulumaraswamy S., Feilding A., Leech R., Nutt D. Carhart-Harris R. Dynamic Transitions of Consciousness: an EEG study using DMT (OHBM). Vancouver 2017

**Timmermann C**., Muthukumaraswamy S., Kaelen M., Schenberg E., Feilding A., Leech R., Nutt D., Carhart-Harris R. Processing of the Mismatch Negativity Under LSD. Organization of Human Brain Mapping Conference (OHBM) Geneva 2016

**Timmermann C**., Muthukumaraswamy S., Kaelen M., Schenberg E., Feilding A., Leech R., Nutt D., Carhart-Harris R. Processing of the Mismatch Negativity Under LSD. British Association of Psychopharmacology (BAP) Bristol 2016

**TEACHING / TRAINING**

INTERNAL

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| **Course** | **Title of lecture** | **Year** | **Course design** |
| MSc in Translational Neuroscience | Psychedelics as a Probe to Human Consciousness | 2023 | Yes |
| MSc in Translational Neuroscience | The Neuroscience of Psychedelics | 2019 | Yes |
| MSc in Translational Neuroscience | Psychedelics: Neuroimaging and Therapeutic Applications | 2017 | Yes |
| MSc in Translational Neuroscience | Introduction to Psychedelics | 2016 | Yes |

EXTERNAL

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| **Organization** | **Course** | **Title of lecture** | **Year** | **Course design** |
| Universidad Católica del Maule | PhD in Psychology: Neurobiología de la Consciencia  | Psicodélicos, Neurociencias y Consciencia | 2023 | Yes |
| Universidad de Chile | Extension Course: Psicodélicos desde una Mirada Transdisciplinar | Estado Actual de las Neurociencias en la Investigación con Psicodélicos y Neurofenomenología | 2023 | Yes |
| Universidad Adolfo Ibañez | Extension Course: Psicodélicos desde las Neurociencias  | Psicodélicos, Experiencia y Contexto: Un Enfoque Neurofenomenológico | 2023-2024 | Yes |
| Chacruna Institute | Critical Perspectives on Knowledge Production in Psychedelic Science | Resisting neuro-reductionism and inviting personal experience into the lab | 2023-2024 | Yes |
| Wavepaths | Course for practitioners | Psychedelic apprenticeship in clinical practice, traditional contexts, and consciousness science | 2022 | Yes |
| University of Ottawa | BSc in Psychology: Interdisciplinary Surveys of Psychedelic Studies | Psychedelic insights and revelations. Between neuroscience and mystical states | 2021 | Yes |
| Synthesis Institute | Practitioner Training | Magic Mushrooms: Understanding the science of change | 2021 | Yes |

SUPERVISED STUDENTS

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| **Student** | **Position** | **Institution of origin** | **Name of the project** | **Years** |
| Lisa Luan | PhD student | Imperial College London | Human brain effects of extended N, N-Dimethyltryptamine (DMT) determined via high-density EEG. | 2019–present |
| Tommaso Barba | PhD student | Imperial College London | Human brain effects of intranasal 5 methoxy N, N-Dimethyltryptamine (5-MeO-DMT), determined with high-density EEG. | 2023-present |
| Lorenzo Palm | MSc intern | University of Groningnen | Investigating the neural mechanisms of DMT’s psychedelic experience. | 2024-present |
| Milly Adams | MSc intern | Imperial College London | EEG predictors of the acute psychedelic experience | 2024-present |
| Cyril Petignat | MSc intern | University of Geneva | Post-acute effects of DMT on brain entropy. | 2023 |
| Nathan Hsiao | MSc intern | Imperial College London | Physiological response during extended infusion of N, N-Dimethyltryptamine | 2023 |
| Luis Contreras | MSc intern | Imperial College London | Exploring the factors related to the individual’s single most profound experience with 5-MeO-DMT | 2023 |
| James Collins | Dpsych | New School of Psychotherapy and Counselling | Exploring encounters with 5-MeO-DMT among experienced psychedelic users: An interpretative phenomenological analysis | 2022-present |
| David Reydellet | MSc intern | University of Amsterdam | Sources and entropy of the EEG activity induced by DMT | 2022 |
| Mariel Marakou | MSc intern | Imperial College London | Effects of 5-MeO-DMT in EEG in naturalistic settings | 2022 |
| Patrick Kleine | MSc intern | Imperial College London | Investigating the Modulatory Effect of N, N- Dimethyltryptamine on Hebbian Plasticity Using the Visual Long-term Potentiation Paradigm. | 2022 |
| Does van der Moolenar | MSc intern | Imperial College London | Investigating the Link between Heart-Evoked Potential and The Bodily Effects Under N, N-Dimethyltryptamine (DMT) | 2020 |
| Lisa Luan | MSc intern | University of Amsterdam | Effects of DMT on human brain activity as measured using combined EEG-fMRI | 2018 |

THESIS EXAMINER / ADVISORY COMMITTEE

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| **Student** | **Role** | **Institution of origin** | **Name of the project** | **Years** |
| Laura Kaertner | PhD advisory committee | University of Manheim | **Psilocybin in the treatment of treatment-refractory unipolar depression - effects on cognitive functions.** | 2022-present |
| Anonymous marking | MSc in Translational Neuroscience thesis examiner | Imperial College London | **Exploring a Potential Relationship Between Complexity and Plasticity** | 2022 |
| David Reydellet | MSc thesis examiner | University of Amsterdam | **Sources and entropy of the EEG activity induced by DMT** | 2022 |
| Tianze Lin | MSc in Translational Neuroscience thesis examiner | Imperial College London | **NK1 antagonism attenuates blunted striatal response and increases striatum-medial prefrontal cortex functional connectivity during monetary reward anticipation in abstinent alcohol** | 2021 |
| Priyanka Jagadeesan | MSc in Translational Neuroscience thesis examiner | Imperial College London | **Temporal Interference: A Proof of Concept Study in Humans** | 2021 |
| Lisa Luan | MSc thesis examiner | University of Amsterdam | **Effects of DMT on human brain activity as measured using combined EEG-fMRI** | 2018 |

**ADMINISTRATIVE AND EXTERNAL ACTIVITIES**

COURSE, CONFERENCE, SYMPOSIUM ORGANISATION

**Member of the planning committee** of Mind and Life. European Summer Research Institue. Pomaia, Italy, 2023 <https://mindandlife-europe.org/events/esri-2023/>

**Led the design of the Imperial College I-STEMM module for undergraduates**: Psychedelics in Science, Medicine, and Culture. The course has been pre-approved. 2023

**Co-director of the course**: Psychedelics from a neuroscientific perspective. 2023-2024 by Universidad Adolfo Ibañez and ECOH Foundation. <https://psicologia.uai.cl/curso/curso-psicodelicos-desde-la-neurociencia/>

**Co-director of the course**: International Course in Multidisciplinary Studies of Psychedelics and Psychotherapy. 2023-2024 by Academia de Psicología y Bienestar and ECOH Foundation <https://www.academiapb.cl/diplomado-internacional-en-estudios-multidisciplinarios-de-psicodelicos-y-psicoterapia-asistida-con-psicodelicos/>

**Organizer of the symposium**: The Telescope of the Mind: Can Psychedelics Provide Insights into Consciousness Psychedelic Science Conference, Denver, US. 2023

***Speakers****: Christopher Timmermann, Anya Ermakova, Manoj Doss*

**Organizer of the symposium** Psychedelics: Bridges between neuroscience, consciousness, and mental health. Universidad Católica de Chile and EcoH Foundation. Online, 2020

*Speakers: Robin Carhart-Harris, Roland Griffiths, Katrin Preller.* <https://youtu.be/sIwr66Jvw5A>

EQUALITY, DIVERSITY, AND INCLUSION (EDI) INITIATIVES

**Founder and President**. The ECOH Foundation for the Study of Human Consciousness. 2020-present. The ECOH Foundation is a non-profit founded in Chile in 2020 and aims to develop science and education concerning non-ordinary states of consciousness in the Latin American continent. Within its central objectives, it seeks to develop bridges between science and indigenous perspectives via symposiums and workshops.

**Organizer and co-chair**. Reflective practice in psychedelic research. *Centre for Psychedelic Research, Imperial College London.* 2023-present. This workshop has been designed to be a safe space for PhD students, Interns, and Research Assistants to reflect on their work as researchers in an emerging field of interest. The workshops are committed to include diverse perspectives from the lived experience of the research community of the Centre for Psychedelic Research.

REVIEWER

*UKRI, PNAS, Journal of Neuroscience, Human Brain Mapping, Biological Psychiatry, Journal of Psychopharmacology, Psychopharmacology, Journal of Psychoactive Drugs, Nature Scientific Reports, Transcultural Psychiatry, Anthropology of Consciousness, Neuroscience of Consciousness, Consciousness and Cognition, Philosophical Psychology, Neuroscience Letters, Drug Science*

**PUBLIC ENGAGEMENT**

SCIENCE COMMUNICATION

Speaker for Seed Talks delivering public lectures: The Science of Psychedelics, The Science of Magic Mushrooms, and The Science of DMT. 2021-present <https://www.seedtalks.co.uk/our-speakers>

Invited panellist for the Cheltenham Science Festival: Microdosing Drugs. 2021 <https://issuu.com/cheltenhamfestivals/docs/science_festival_2019_brochure>

Invited speaker for the New Scientist Festival: Psychedelic phenomenology and associated brain activity as a model for dreaming (invited speaker). *Royal Society of Medicine*

Exploring Consciousness Using Psychedelics. 2018 <https://www.newscientist.com/video/2184809-chris-timmermann-exploring-consciousness-using-psychedelics/>

Invited speaker for the panel: Neuroimaging of Psychedelics. *Psych Symposium. London, UK.* 2023 <https://www.psychsymposium.com/speakers>

Columnist for Psychology Today: *The Psychology and Neuroscience of Psychedelics*. 2023-present <https://www.psychologytoday.com/intl/contributors/christopher-timmermann-phd>

Invited speaker for online Burning Man festival. *Online*. 2020. Psychedelic apprenticeship. Developing a gentle touch for psychedelic knowing

SELECT FEATURES IN MEDIA OUTLETS

SCIENCE VS: Ayahuasca and DMT. 2024 [https://open.spotify.com/episode/7JylmqFym6YbV3rpJBCgS0?si=37513e7c3f784097.](https://open.spotify.com/episode/7JylmqFym6YbV3rpJBCgS0?si=37513e7c3f784097.%20)

BIG THINK: The psychedelic DMT causes the brain to become hyperconnected, scans reveal. 2023 <https://bigthink.com/neuropsych/dmt-hyperconnects-brain/>

THE GUARDIAN: Psychedelic brew ayahuasca’s profound impact revealed in brain scans. 2023 <https://www.theguardian.com/science/2023/mar/20/psychedelic-brew-ayahuasca-profound-impact-brain-scans-dmt>

NAUTILUS: What Happens to My Brain on the Psychedelic DMT? 2023 <https://nautil.us/what-happens-to-my-brain-on-the-psychedelic-dmt-289319/?utm_source=twitter&utm_medium=organic-social&utm_campaign=stories&utm_content=what-happens-to-my-brain-on-the-psychedelic-dmt>

NATURE. *Can psychedelic drugs uncover the secrets of consciousness?* 2022. <https://www.nature.com/articles/d41586-022-03013-y>

BBC. *How does it feel to die?* – BBC REEL. 2022.<https://www.youtube.com/watch?v=GcOckvgSK8o>

BIG THINK: *Metaphysics and mushrooms: Psychedelics can change how you think about the universe.* 2021. <https://bigthink.com/neuropsych/psychedelics-mushrooms-metaphysics/>

THE DALES REPORT. *Psilocybin Alters Answers to Big Life Questions***.** 2021. <https://thedalesreport.com/interviews/psilocybin-alters-answers-to-big-life-questions-study>

BBC. *A DMT trip 'feels like dying' - and scientists now agree. 2019*. <https://www.bbc.co.uk/bbcthree/article/dd52796e-5935-414e-af0c-de9686d02afa>

THE TIMES. *Mythical drug ayahuasca offers clue to consciousness*. 2019. <https://www.thetimes.co.uk/article/mythical-drug-ayahuasca-offers-clue-to-consciousness-mpblbzkzs>

CBC. *The psychedelic DMT modifies brain waves to produce 'waking-dreams'. 2019.* <https://www.cbc.ca/radio/quirks/nov-23-psychedelics-and-waking-dreams-adding-feeling-to-virtual-reality-the-greatest-ape-and-more-1.5369357/the-psychedelic-dmt-modifies-brain-waves-to-produce-waking-dreams-1.5369360>

WIRED. *Turns out near-death experiences are psychedelic, not religious*. 2018. <https://www.wired.co.uk/article/near-death-experiences-psychedelic-religious>

NEW SCIENTIST. *Why taking ayahuasca is like having a near-death experience*. 2018 <https://www.newscientist.com/article/2176721-why-taking-ayahuasca-is-like-having-a-near-death-experience/?utm_source=NSNS&utm_medium=SOC&utm_campaign=hoot&cmpid=SOC%7CNSNS%7C2016-GLOBAL-hoot>

YAHOO**.** *Near-Death Experience...or Psychedelic Trip?* 2018.

WIRED**.** *The brain on DMT: mapping the psychedelic drug's effects. 2017.* <https://www.wired.co.uk/article/mapping-brain-dmt-psychedelic-drugs>

**LANGUAGES**

Spanish (native), English (very advanced) and Italian (advanced)