



# Christopher Benjamin Germann

**Nationality:** German | **Email address:** [mail@dr.christopher-germann.de](mailto:mail@dr.christopher-germann.de)

## WORK EXPERIENCE

01/04/2014 – 01/04/2019 Plymouth, United Kingdom

**MARIE CURIE RESEARCH FELLOW (DUAL POSITION)** UNIVERSITY OF PLYMOUTH

### **Research & lecturing with an inter/transdisciplinary scientific orientation (integration and synthesis of knowledge accross disciplines)**

**Domains of expertise:** Cognitive neuroscience | Neurochemistry | Cognitive Science | Quantum Physics | Neurocybernetics | General Psychology

**Exemplaric topics:** *Prefrontal executive functions & top-down inhibition, affective neuroscience, personality & psychopathology, psychobiology, epigenetics and telomeres, theoretical quantum physics, psychophysics, quantum cognition and logical/syllogistic reasoning, social psychology and group-dynamics, belief-bias, visual perception, auditory perception, cross-modal interactions, embodied cognition and artificial intelligence, 5-hydroxytryptamine and altered states of consciousness, NN-DMT, 5-MeO-DMT, Psilocybin, higher-order cognitive processes, philosophy of science, history of science, statistics (frequentist and Bayesian), Markov chain Monte Carlo simulation in R (using Bayesian a posteriori parameter estimation), etc.*

- Dissemination of research findings at international conferences (e.g., New York, Californian, Filzbach/Switzerland, *inter alia*)
- Publication in peer-reviewed scientific journals by multinational publishing companies (Springer and Elsevier)
- Implementation of the "open science/data philosophie" using web-based technologies

## EDUCATION AND TRAINING

01/04/2014 – 01/04/2019 Plymouth, United Kingdom

**PHD** University of Plymouth

Secondment at Manipal University Jaipur, India.

**Website** <https://christopher-germann.de/phd-thesis/>

01/01/2008 – 01/01/2010 United Kingdom

**MASTER OF SCIENCE (WITH DISTINCTION)** University of Plymouth

**Website** <https://christopher-germann.de/master-thesis/>

01/01/2005 – 01/01/2009 Netherlands

**BACHELOR OF SCIENCE** Free University of Amsterdam

**Website** <https://christopher-germann.de/bachelor-thesis/>

## LANGUAGE SKILLS

Mother tongue(s): **GERMANN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C1	C1	C2	C2
DUTCH	B2	B2	B2	B1	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● DIGITAL SKILLS

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HTML5/CSS, Javascript | Logic gates | HTML5 CSS3 | FileZilla FTP Client | FTP SFTP Servers connection | SQL (MySQL) | Dreamweaver MX 2004 | Macromedia Flash (base) | R STATISTICS | E-prime | Web - HTML/CSS | Microsoft Office | Microsoft Powerpoint | Google Drive | Microsoft Word | Outlook | Microsoft Excel | Google Docs | Social Media | Skype | Good listener and communicator | Motivated | Analytical skills | Data Analysis Statistics | R | Eprime | Implement various census methods and surveys | Processes, methods and tools for social innovation | Research and Analytical Skills | Timeseries forecasting | JASP Bayesian and Classical Inference | Bayesian Method/Estimation | Markov Chain Monte Carlo | Hidden Markov Models | Organizational and planning skills | Decision-making | Written and Verbal skills | Team-work oriented | Responsibility | Flexibility | Gmail | Research and analytical skills | Zoom

### Ethos

### Cognition

Creativity | Critical thinking

### Statistical methods

Data treatment | Classical Analytical methods

### Software

IBM SPSS Statistics 20 | Programming: Python, R, SQL, SPSS

## ● ADDITIONAL INFORMATION

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### PUBLICATIONS

#### [5-Methoxy-N,N-dimethyltryptamine: An Ego-Dissolving Endogenous Neurochemical Catalyst of Creativity](#)

– 2019

in Springer's *Activitas Nervosa Superior - The Journal for Neurocognitive Research*

- Preprint (bioRxiv): <https://www.biorxiv.org/content/10.1101/578435v2>
- Full-text in HTML (with integrated AI text-to-speech synthesis): <https://christopher-germann.de/papers/5-meo-dmt-creativity/index.html>
- Research Gate: [https://www.researchgate.net/publication/335329415\\_5-Methoxy-NN-dimethyltryptamine\\_An\\_Ego-Dissolving\\_Endogenous\\_Neurochemical\\_Catalyst\\_of\\_Creativity](https://www.researchgate.net/publication/335329415_5-Methoxy-NN-dimethyltryptamine_An_Ego-Dissolving_Endogenous_Neurochemical_Catalyst_of_Creativity)
- IPFS: <https://ipfs.infura.io/ipfs/QmeFgzXHRnHa8MTc2TZaVgvgCeCsaVq2kLZ7ZxxKn9TG84> <sup>The InterPlanetary File System (IPFS) is a protocol and peer-to-peer network for storing and sharing data in a distributed file system. IPFS uses content-addressing to uniquely identify each file in a global namespace connecting all computing devices(a decentralised system similar to BitTorrent).</sup>

**This ranks in the top 25% (percentile) of all research outputs scored by Altmetric**

Citation & Geo-IP access metrics: <https://www.altmetric.com/details/57166533>

Additional information: <https://christopher-germann.de/5-methoxy-nn-dimethyltryptamine-an-ego-dissolving-endogenous-neurochemical-catalyst-of-creativity/>

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## SOCIAL AND POLITICAL ACTIVITIES

**Public engagement: Glyphosate – A neurotoxic, genotoxic, and carcinogenic chemical which is ubiquitous in our food and environment** *Let food be thy medicine and medicine be thy food. — Hippocrates*  
Website abstract: Glyphosate (IUPAC name: *N*-(phosphonomethyl)glycine) is a non-selective broad-spectrum systemic herbicide and crop desiccant. It is primarily used to “kill weeds”. Furthermore, it is utilized massively by the agricultural industry on many food crops which people consume on a daily basis (e.g., fruits, vegetables, grains, etc.).

<http://www.glyphosate-neurotoxicity.de>

Link [https://youtu.be/mB4YR-O5X5M?list=TLGGRI\\_D\\_aIWYEy4wNzA4MjAyMg](https://youtu.be/mB4YR-O5X5M?list=TLGGRI_D_aIWYEy4wNzA4MjAyMg)

## CONFERENCES AND SEMINARS

United States of America

**Science & Nonduality conference in California's Silicon Valley** Presentatiin on “quantum cognition and visual perception” at the “Science and Nonduality” (acronymised as SAND) conference which took place in California’s Silicon Valley. SAND provides a forum where preeminent physicist, neuroscientists, psychologists, philosophers, artists and a large, international community gather to explore and advance the new emerging paradigms and the interconnectedness of science.

<https://www.scienceandnonduality.com/audio/sand16-visual-decision-making-a-quantum-cognition-perspective>

Associated audio-visual presentation:

<https://christopher-germann.de/wp-content/uploads/science-and-nonduality-2016-presentation-on-quantum-cognition-in-visual-perception-christopher-b-germann.mp4>

Link <https://christopher-germann.de/presentation-science-and-nonduality-conference-in-california/>

## PROJECTS

**CogNovo - viz., Cognitive Innovation (interdisciplinary/international collaboration & creativity in neuroscience and cognitive science)** EU Project

<https://cognovo.net/christopher-germann/>

## CREATIVE WORKS

CURRENT

**Cognitive Liberty Project** Freedom of thought (viz., cognitive liberty) is a *conditio sine qua non* for scientific progress.

<https://cognitive-liberty.online>

“It must not be supposed that the officials in charge of education desire the young to become educated. On the contrary, their problem is to impart information without imparting intelligence. Education should have two objects: first, to give definite knowledge — reading and writing, languages and mathematics, and so on; secondly, to create those mental habits which will enable people to acquire knowledge and form sound judgments for themselves. The first of these we may call information, the second intelligence. The utility of information is admitted practically as well as theoretically; without a literate population a modern State is impossible. But the utility of intelligence is admitted only theoretically, not practically; it is not desired that ordinary people should think for themselves, because it is felt that people who think for themselves are awkward to manage and cause administrative difficulties. Only the guardians, in Plato’s language, are to think; the rest are to obey, or to follow leaders like a herd of sheep. This doctrine, often unconsciously, has survived the introduction of political democracy, and has radically vitiated all national systems of education.”

Nobel laureate Lord Bertrand Russell (1922) “Free Thought And Official Propaganda”

Full text available on the Internet Archive:

[archive.org/stream/freethoughtoffic00russuoft](https://archive.org/stream/freethoughtoffic00russuoft)

### **A definition of “Cognitive Liberty”**

*by Christopher Germann (December 2018)*

The term “liberty” is etymologically derived from the Latin *libertatem* which can be translated as “civil or political freedom, condition of a free man, absence of restraint”; cognate to *liber* “free” and *libertas* “freedom” (cf. [library](#)). *Ex vi termini*, “cognitive liberty” is semantically synonymous with “**the right to**

**psychological and neurocognitive self-determination**". It implies that human creatures have the universal right & freedom (viz., *sui iuris*) to control and determine their own psychology, i.e., their neurophysiological/neurochemical and cognitive processes, emotions, and *all* aspects of consciousness. The concept is thus essential to the universal principle of [freedom of thought](#) (**Article 9<sup>6</sup>** of the Human Rights Act 1998) which in turn forms the basis (s.c., a *condicio sine qua non*) for the right to [freedom of speech/expression](#). As Erich Fromm appositely articulated it: "*The right to express our thought, however, means something only if we are able to have our own thoughts; freedom from external authority is a lasting gain only if the inner psychological conditions are such that we are able to establish our own individuality*" (Fromm, *The fear of freedom*, 1942; pp.207-208). This quotation echoes Søren Kierkegaard: "*People demand freedom of speech as a compensation for the freedom of thought which they seldom use.*"

## COMMUNICATION AND INTERPERSONAL SKILLS

**Interview with Prof. Rodger Malina (former NASA director)** Christopher Germann and [Prof. Roger Malina](#) discuss Chris' current work in the Cognovo PhD program, on quantum cognition which applies the mathematical formalisms of quantum theory to understanding cognitive processes. Chris is currently working on non-commutativity in decision theory, with laboratory experiments in visual decision making. He is also studying the role of the endogenous neurotransmitter DMT (N,N-Dimethyltryptamine) in perception and cognition.

- <https://createdisturbance.org/voice/christopher-germann/>
- Immersive HTML5-based animation: <https://christopher-germann.de/cognitive-neuroscience-podcast-on-quantum-cognition-and-dmt/>

Additional information: <https://christopher-germann.de/podcast-with-prof-roger-malina-createdisturbance-org/>

MP3: <https://christopher-germann.de/wp-content/uploads/christopher-germann-creative-disturbance.mp3>

Link <https://christopher-germann.de/wp-content/uploads/christopher-germann-creative-disturbance.mp3>

## VOLUNTEERING

**Web-Development / UI-Design / UX-Design for CogNovo** Creation of a Content-Management-System (based on the open-source software Wordpress and cutting-edge web technologies such as HTML5 objects and CSS3 transforms):

<https://cognovo.net/cms/>

Creation of a mySQL-based web forum for CogNovo (using open-source software SMF v.2.0.14 - acronym for "Simple Machines Forum")

<https://forum.cognovo.net>

Design and implementation of interactive & engaging landing-page which employs a fascinating conceptual visual metaphor (à la Lakoff):

<https://cognovo.net>

Link <https://cognovo.net/cms/wp-content/uploads/2019/05/Silhouette-18399.mp4>

## BOOK REVIEWS

**Einstein and the Quantum: The Quest of the Valiant Swabian by Prof. Douglas Stone**

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Review published by MIT Press

[https://www.mitpressjournals.org/doi/10.1162/LEON\\_r\\_00994](https://www.mitpressjournals.org/doi/10.1162/LEON_r_00994)

Full-text in HTML (with integrated AI text-to speech-synthesis): <https://christopher-germann.de/einstein-and-the-quantum-the-quest-of-the-valiant-swabian/>

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