

SCIENTIFIC ACTIVITY REPORT 2017

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EVANLAB

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This scientific activity report for 2017 is actually for the fifth year (still ongoing) of research for the group which for the past three years (since mid-2014) has comprised the EvanLab non-profit organization, and concerns the period from July 2016 to August 2017.

We have been extremely busy and can affirm, with absolute certainty, that EvanLab has established itself among the world's most important research groups in its dedicated field (the scientific study of "frontier" disciplines), and this year there was no shortage of achievements.

It is in fact immensely satisfying to be able to announce that we are represented in the recently founded **Science of Consciousness Research Group**, with its own page on the official website of the University of Padova – Department of General Psychology (<http://dpg.unipd.it/en/soc>).

Drawing from work undertaken at EvanLab involving controlled OBEs under hypnosis, a new study by Enrico Facco, Edoardo Casiglia, Benedikt Emanuel Al Khafaji, Francesco Bellelli, Gian Marco Duma, Giovanni Mento, Luciano Pederzoli, Francesco Finatti and Patrizio Tressoldi has been carried out which used another hypnotist, other subjects and different equipment; the results are still under analysis. The study is called **Neurophenomenology of Out-of-Body Experiences Induced by Hypnotic Suggestions**.

Another achievement we are proud of is the announcement that Dean Radin, the Californian researcher with a reputation for professional expertise and ability, has used data published by us regarding distant mind-to-mind interaction to undertake (using a method of his own creation) an analysis that has independently confirmed our own conclusions (**Electrocortical correlations between pairs of isolated people: A reanalysis**). This has been published on **F1000Research** (<https://f1000research.com/articles/6-676/v1>).

A further achievement is the collaboration proposal we received from the Californian group headed by Dean Radin and the Canadian group headed by Michael Persinger (also well-known in this field for his important research), which has opened a new research pathway into mind-to-mind interactions; funding for this has already been requested from the USA and has passed the first phase of selection. We are in regular contact with Radin and we have met with members of Persinger's group in Padova; we trust that our request for funding will soon also pass the second and last phase.

Finally, it is my pleasure to announce that we have received high praise from around the world (a rare occurrence in the field of hypnotically induced OBEs, the usual response being silence):

06-08-2016 – the famous researcher Carlos S. Alvarado - Parapsychology Foundation, **New Study of Electroencephalographic Detection of ESP** (<https://carloalvarado.wordpress.com/2016/08/06/new-study-of-electroencephalographic-detection-of-esp/>).

24-01-2017 – The PARAPSYCHOLOGICAL ASSOCIATION, **Researchers at EvanLab Explore OBEs through Hypnosis**

(http://www.parapsych.org/articles/32/420/researchers_at_evanlab_explore.aspx).

...and in Italy:

02-12-2015 – The online journal WALL STREET INTERNATIONAL MAGAZINE, **HypnOBE - Cosa si sperimenta nello stato di coscienza fuori dal corpo?** by Antonella Benanzato

(<http://wsimag.com/it/scienza-e-tecnologia/18418-hypnobe>)

July 2017 - The monthly online journal KARMANEWS, **Telepatia: le spiegazioni scientifiche**, by Sergio Ragaini (<http://www.karmanews.it/17251/telepatia-le-spiegazioni-scientifiche/>)

Our intensive research activity, aimed at the acquisition and publication of innovative results and making them available to all interested researchers, has taught us much, however, for every answer we laboriously obtain, we are inundated with many other questions needing to be answered. Research is exciting, but never-ending!

Once we passed the stage of proving the existence of these phenomena and their reproducibility, we arrived at the data collection stage, necessary for describing their characteristics and attempting to understand their underlying physical principles. These studies and experiments, although not intended for publication, proceed unceasingly, thanks also to the important contribution of Elena Prati.

CURRENT STATUS AND THE FUTURE

MIND-MATTER INTERACTION and THEORY

There is abundant data on this subject and the article titled:

- **The Physics of Mind-Matter Interaction at a Distance**, by Pederzoli, Giroladini, Prati & Tressoldi, provides an initial possible theoretical interpretation of our mind-matter interaction studies. Its publication in the **NeuroQuantology** journal should lead to a beneficial increase in interest for the subject. Available on:

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2968430

We nonetheless still have much data to analyze and we are also collaborating in a study Dean Radin has set in motion to study the influence of the mind on the detection of “entangled” photon pairs emitted from a specialized device.

MIND-TO-MIND INTERACTION and MIND-COMPUTER INTERFACE

This is for us a very important field of research, which we have been involved with since EvanLab’s inception. We have in fact chosen to instrumentally study specifically that which we call “unconscious telepathy”, that is, the interaction (detected instrumentally) between minds below the awareness threshold (of the receiving subject). We therefore had to develop specialized methods and software to allow consistent detection of received signals. To this end, William Giroladini has developed an original analysis method/software (GW6), which has already been published (Giroladini, W., Pederzoli, L., Bilucaglia, M., Melloni, S. and Tressoldi, P.E. - **A new method to detect Event-Related Potentials based on Pearson's correlation** - EURASIP Journal on

Bioinformatics and Systems Biology - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4894923/>), and was used in the previous work (Giroladini, W., Pederzoli, L., Bilucaglia, M., Caini, P., Ferrini, A., Melloni, S., Prati, E., Tressoldi, P.E. - **EEG correlates of social interaction at distance**. **F1000Research** - <https://f1000research.com/articles/4-457/v5>).

This case, however, involved detecting the presence of these signals with the sender subject having much fewer stimulations than the previous test (32 compared to the previous 128). This proved to be a very difficult task and required a year of work, but once completed, above all thanks to Giroladini and later also Bilucaglia, we acquired particularly well-documented and interesting data. The GW6 software, initially developed by W. Giroladini using Visual Basic, has been improved and is now freely available (thanks to M. Bilucaglia) also on the MATLAB platform (<http://it.mathworks.com/matlabcentral/fileexchange/63973-gw6-grand-average-erp-algorithm>). After many discussions and much processing we produced the article titled:

- **Brain-to-Brain interaction at a distance - A global or differential relationship? v2** by William Giroladini, Luciano Pederzoli, Marco Bilucaglia, Elena Prati & Patrizio Tressoldi. Available on: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2991977

CONTROLLED OBE UNDER HYPNOSIS

We have two papers dedicated to this phenomenon currently under proposal for publication and we await the journals' decision. Since our subject matter can be a rather thorny one, publication can sometimes be delayed because not all peer-review journals accept our articles; we therefore submit them to multiple journals in succession, and there is a response time of at least three months for each journal.

- One article (**Out-of-Body Experience Induced by Hypnotic Induction: A Neurophenomenological Study**, by Luciano Pederzoli, William Giroladini, Gian Marco Duma, Giovanni Mento, Elena Prati e Patrizio Tressoldi) tackles its neuro-phenomenological aspects for the first time, based on the by now widely replicated *controlled OBE under hypnosis*. Among other notable results, analysis obtained of EEG tracings show an increase in cerebral delta activity during transition from imaginary OBE to the interviewed OBE state, mirroring what is observed in the transition from a hypnotic state to the interviewed OBE state. Available on: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2820689
- The second article (**OBE, a phenomenological comparison of different causes**, by Alexander De Foe, Benedikt Emanuel Al Khafaji, Luciano Pederzoli, Elena Prati e Patrizio Tressoldi) concerns different types of OBEs and compares accounts of those who have had them, in order to understand common points and possible differences. Available on: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2903827
- Compatible results also seem to emerge from an initial study by Facco, Casiglia, Al Khafaji, Bellelli, Duma, Mento, Pederzoli, Finatti and Tressoldi titled **Neurophenomenology of Out-of-Body Experiences Induced by Hypnotic Suggestions** (REG.: <https://osf.io/9x65m/>).

CURRENT STATUS OF SCIENTIFIC PUBLICATIONS

N.B.: All articles are also available in Italian at www.evanlab.org

RECENT ARTICLES STILL PENDING

- Giroladini, W., Pederzoli, L., Bilucaglia, M., Prati, E. and Tressoldi, P.E. - ***Brain-to-Brain interaction at a distance - A global or differential relationship?***
Jun 26, 2017 - In attesa di pubblicazione peer-reviewed. Awaiting peer-review publication.
Available at: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2991977
- Pederzoli, L., Giroladini, W., Prati, E. and Tressoldi, P.E. - ***The Physics of Mind-Matter Interaction at a Distance.***
May 15, 2017 – Currently under publication on **NeuroQuantology**.
Available at: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2968430
- De Foe, A., Al Khafaji, B.E., Pederzoli, L., Prati, E. and Tressoldi, P.E. - ***OBE, a phenomenological comparison of different causes.***
Jan 24, 2017 - In attesa di pubblicazione peer-reviewed. Awaiting peer-review publication.
Available at: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2903827
- Pederzoli, L., Giroladini, W., Duma, G.M., Mento, G., Prati, E. and Tressoldi, P.E.- ***Out-of-Body Experience Induced by Hypnotic Induction: A Neurophenomenological Study.***
Aug 11, 2016 - In attesa di pubblicazione peer-reviewed. Awaiting peer-review publication.
Available at: http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2820689

PEER-REVIEWED PUBLICATIONS

- Tressoldi, P.E., Pederzoli, L., Matteoli, M., Prati E. and Kruth, J.G. - ***Can our Minds emit light at distance? A pre-registered confirmatory experiment of mental entanglement with a photomultiplier.***
NeuroQuantology | September 2016 | Volume 14 | Issue 3 | Page 447-455
<https://www.neuroquantology.com/index.php/journal/article/view/906>
- Giroladini, W., Pederzoli, L., Bilucaglia, M., Melloni, S. and Tressoldi, P.E. - ***A new method to detect Event-Related Potentials based on Pearson's correlation.***
EURASIP Journal on Bioinformatics and Systems Biology. 7 June 2016, 2016:11
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4894923/>
- Walach, H., Tressoldi, P.E., Pederzoli L. (2016) - ***Mental, behavioural and physiological nonlocal correlations within the Generalized Quantum Theory framework.***
Axiomathes. April 2016 - doi10.1007/s10516-016-9290
<https://link.springer.com/article/10.1007/s10516-016-9290-6>
Also available at: <http://ssrn.com/abstract=2695741>
- Tressoldi, P.E., Pederzoli, L., Caini, P., Ferrini, A., Melloni, S., Richeldi, D., Richeldi, F., Trabucco, A. - ***Hypnotically Induced Out-of-Body Experience: How Many Bodies Are There? Unexpected Discoveries About the Subtle Body and Psychic Body.***
SAGE Open. October-December 2015: 1-11 - November 16, 2015
<http://journals.sagepub.com/doi/full/10.1177/2158244015615919>
- Giroladini, W., Pederzoli, L., Bilucaglia, M., Caini, P., Ferrini, A., Melloni, S., Prati, E., Tressoldi, P.E. (2015) - ***EEG correlates of social interaction at distance.***
F1000Research. 2015, 4:457
<https://f1000research.com/articles/4-457/v5>

- Tressoldi, P.E., Pederzoli, L., Caini, P., Ferrini, A., Melloni, S., Richeldi, D., Richeldi, F., Duma, G.M. (2014) - ***Mind-Matter Interaction at a Distance of 190 km: Effects on a Random Event Generator Using a Cutoff Method.***
NeuroQuantology | September 2014 | Volume 12 | Issue 3 | Page 337-343
<https://www.neuroquantology.com/index.php/journal/article/view/767/663>
- Tressoldi, P.E., Pederzoli, L., Bilucaglia, M., Caini, P., Fedele, P., Ferrini, A., Melloni, S., Richeldi, D., Richeldi, F., Accardo, A. - ***Brain-to-Brain (mind-to-mind) interaction at distance: a confirmatory study.***
F1000Research. 2014, 3:182 - August 5, 2014
<https://f1000research.com/articles/3-182/v3>

NON PEER-REVIEWED PUBLICATIONS

- Tressoldi, P.E., Pederzoli, L., Ferrini, A., Matteoli, M., Melloni, S., and Kruth, J.G. - ***Can Our Minds Emit Light? Mental Entanglement at Distance with a Photomultiplier.***
July 1, 2015 - http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2625527
- Pederzoli, L. - ***A new model of reality.***
June 16, 2015 - http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2619221
- Tressoldi, P.E., Pederzoli, L., Caini, P., Ferrini, A., Melloni, S., Richeldi, D., Richeldi, F., Kruth, J. G. - ***Mental Interaction at Distance on a Photomultiplier: A Pilot Study.***
October 24, 2014 - http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2506135
- Tressoldi, P.E., Pederzoli, L., Bilucaglia, M., Caini, P., Fedele, P., Ferrini, A., Melloni, S., Accardo, A. - ***Brain-to-Brain (Mind-to-Mind) Interaction at Distance: A Pilot Study.***
May 24, 2014 - http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2423852
- Tressoldi, P.E., Pederzoli, L., Caini, P., Ferrini, A., Melloni, S., Richeldi, D., Richeldi, F., Trabucco, A. - ***Out of Body Experience Induced by Hypnotic Suggestion: Phenomenology and Perceptual Characteristics.***
March 17, 2014 - http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2443719