

Curriculum vitae

Stoianov Ivilin Peev

• PROFILES

CNR: <https://www.istc.cnr.it/en/people/ivilin-peev-stoianov>
ResearcherID: [G-5904-2011 & AAX-8528-2020](https://orcid.org/0000-0003-0642-259X)
ORCID: 0000-0003-0642-259X
SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=14834568000>
Google Scholar <https://scholar.google.it/citations?user=hCI3cnYAAAAAJ>
ResearchGate https://www.researchgate.net/profile/Ivilin_Stoianov/

• EDUCATION

2001	PhD	INFORMATICA E SCIENZE COGNITIVE
1994	Master	INFORMATICA

• CURRENT POSITIONS

2018 – Current Position	full-time researcher Istituto di Scienze e Tecnologie della Cognitive (ISTC), Consiglio Nazionale delle Ricerche, Via Beato Pellegrino, 28, Padova PD
2021 – 2030	Italian National Scientific habilitation, macro-sector 11/E1 Psychology
2014 – 2022	Italian National Scientific habilitation, macro-sector 11/E1 Psychology scientific-disciplinary sector M-PSI/03 (Psychometrics)

• PREVIOUS POSITIONS

2016-2018	full-time researcher T.D. Istituto di Scienze e Tecnologie della Cognitive (ISTC), CNR,
2014 – 2016	Marie-Curie European Research Fellowship PIEF-GA-2013-622882 “VIFER”, Laboratoire de Psychologie Cognitive, Aix-Marseille Université, CNRS, France
2013 – 2014	research fellow, European research grant “Goal-Leaders”, ISTC, CNR
2008 – 2013	research fellow, ERC research project “GENMOD”, Dipartimento di Psicologia Generale, Università di Padova.
2007 – 2008	research fellow, Department of Neurosciences, Faculty of Medicine and Surgery, University of Parma
2003 – 2007:	University Research Fellowship, Dipartimento di Psicologia Generale, Università di Padova.
2001 – 2003:	research fellow, ERC research project “Mathematics and the brain”, Dipartimento di Psicologia Generale, Università di Padova.
1997 – 2001:	PhD fellowship with project “Connectionist Lexical Processing”, Faculty of Linguistics, University of Groningen, The Netherlands.
1994 – 1997:	full-time researcher, Department of Parallel Processing Systems, Institute of Information Technologies, Bulgarian Academy of Sciences

• FELLOWSHIPS

2020-2024:	<i>HORIZON2020-EIC-FETPROACT-2019</i> “Multifunctional, Adaptive and Interactive ai system for Acting in multiple contexts” (MAIA), Grant 951910, <u>Unit Coordinator</u>
2019-2022:	<i>PRIN2017</i> project <i>Performing Actions in a Changing Environment (PACE)</i> . Prot. 2017KZNZLN. <u>Unit Coordinator</u>
2014-2016:	personal European Marie Curie research grant <i>FP7-PEOPLE-2013-IEF –</i> Grant 622882 “The Visual Front-End of Reading”, <u>Principle Investigator</u>

2005-2007 research grant “Neural basis of the SNARC and Simon effects”, Univ. Padova
2003-2006 CNR-BAS research grant “Development of Wireless Single-cell recording device”
1997-2001 PhD grant at The Behav. Cogn. Neurosc. school, University of Groningen

• **TEACHING ACTIVITIES**

2020-2021 Professor with a temporary appointment for the course “Matlab and Computational Cognition” 2020/2021 (4CFU, 28 hours), University of Padova.
2019-2020 Professor with a temporary appointment for the course “Computational Neuroscience” 2018/19; (2 CFU, 14 hours), University of Padova.
2010-2013 Professor with a temporary appointment for the course "Computer Science and Bioinformatics", Bachelor degree in Biology, University of Padova.
2007-2013 Professor with a temporary appointment for the course "Computer Science and Bioinformatics", Bachelor degree in Molecular Biology, University of Padova.
2003-2006 Professor with a temporary appointment for the course “Computer Science applied to the psychological research”, Master degree in Dev. Psychology, Univ. of Padova

• **ORGANISATION OF SCIENTIFIC MEETINGS**

2021 Workshop “*Sensorimotor Integration and Control at the Apic: Empirical and Modeling perspectives*”

• **INSTITUTIONAL RESPONSIBILITIES**

2021 – 2024 Graduate Student Advisor, University of Bilogna
2019 – 2021 Member of the Faculty Committee, Dipartimento di Psicologia Generale, Univ. Padova
2007 – 2013 Member of the Faculty Committee, Dipartimento di Biologia, Univ. Padova
2003 – 2006 Member of the Faculty Committee, Dipartimento di Psicologia Generale, Univ. Padova

• **REVIEWING ACTIVITIES**

2017- ongoing *Entropy*, Guest Editor of two special issues
2015- ongoing Review Editor, *Frontiers*
2005-ongoing reviewer for *Cortex*; *Cognition*; *Journal of Vision*; *Psychological research*; *QJEP*; *Psychophysiology*, *Attention*, *Perception*, and *Psychophysics*; *Frontiers in Cognition*; *Frontiers in Psychology*, *PLOS One*, *Scientific Reports*, *Developmental Science*
2014-ongoing expert-evaluator of European research projects under Horizon-2020
2020 expert-evaluator of ANR, France
2021 expert-evaluator VQR 2015-2019

• **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

2020- Member, *Mediterranean Neuroscience Society*

• **MAJOR COLLABORATIONS**

Giovanni Pezzulo,	ISTC-CNR,	computational modelling, goal-directed behaviour
Patrizia Fattori	University of Bologna	neurocomputational analysis, decoding, modeling
Marco Zorzi	University of Padova	computational modeling, numerosity cognition
Ani Boneva	Bulgarian Academy of Sciences	human-computer interaction

Publications

STATISTICS:

SCOPUS h=14, n=30 documents, n=770 citations
Google Scholar h=20, n=68 publications, n=1986 citations

Top publications of the last 10 years: Aver. IF=6.33 Aver. Citations 35,27

1. Stoianov, I., Zorzi, M.
Emergence of a 'visual number sense' in hierarchical generative models
(2012) *Nature Neuroscience*, 15 (2), pp. 194-196. IF 20.07 Cited 176 times.
DOI: 10.1038/nn.2996
2. Jezzini, A., Caruana, F., Stoianov, I., Gallese, V., Rizzolatti, G.
Functional organization of the insula and inner perisylvian regions
(2012) *Proceedings of the National Academy of Sciences of the United States of America*, 109 (25), pp. 10077-10082. IF 9.41 Cited 90 times.
DOI: 10.1073/pnas.1200143109
3. Cappelletti, M., Didino, D., Stoianov, I., Zorzi, M.
Number skills are maintained in healthy ageing
(2014) *Cognitive Psychology*, 69, pp. 25-45. IF 3.03 Cited 53 times.
DOI: 10.1016/j.cogpsych.2013.11.004
4. Zorzi, M., Testolin, A., Stoianov, I.P.
Modeling language and cognition with deep unsupervised learning: A tutorial overview
(2013) *Frontiers in Psychology*, 4 (AUG), art. no. Article 515, . IF 2.99 Cited 48 times.
DOI: 10.3389/fpsyg.2013.00515
5. Stoianov, I., Genovesio, A., Pezzulo, G.
Prefrontal goal codes emerge as latent states in probabilistic value learning
(2016) *Journal of Cognitive Neuroscience*, 28 (1), pp. 140-157. IF 3.11 Cited 28 times.
DOI: 10.1162/jocn_a_00886
6. Kramer, P., Stoianov, I., Umiltà, C., Zorzi, M.
Interactions between perceptual and numerical space
(2011) *Psychonomic Bulletin and Review*, 18 (4), pp. 722-728. IF 3.91 Cited 23 times.
DOI: 10.3758/s13423-011-0104-y
7. Testolin, A., Stoianov, I., Zorzi, M.
Letter perception emerges from unsupervised deep learning and recycling of natural image features
(2017) *Nature Human Behaviour*, 1 (9), pp. 657-664. IF 12.3 Cited 22 times.
DOI: 10.1038/s41562-017-0186-2
8. Testolin, A., Stoianov, I., De Filippo De Grazia, M., Zorzi, M.
Deep unsupervised learning on a desktop pc: A primer for cognitive scientists
(2013) *Frontiers in Psychology*, 4 (MAY), art. no. Article 251, . IF 2.99 Cited 22 times.
DOI: 10.3389/fpsyg.2013.00251
9. Pezzulo, G., Donnarumma, F., Iodice, P., Maisto, D., Stoianov, I.
Model-based approaches to active perception and control
(2017) *Entropy*, 19 (6), art. no. 266, . IF 2.42 Cited 14 times.
DOI: 10.3390/e19060266

10. Testolin, A., Stoianov, I., Sperduti, A., Zorzi, M.
Learning Orthographic Structure With Sequential Generative Neural Networks
(2016) *Cognitive Science*, 40 (3), pp. 579-606. IF 2.21 Cited 14 times.
DOI: 10.1111/cogs.12258
11. Rusciano, A., Corradini, G., Stoianov, I.
Neuroplus biofeedback improves attention, resilience, and injury prevention in elite soccer players
(2017) *Psychophysiology*, 54 (6), pp. 916-926. IF 3.69 Cited 10 times.
DOI: 10.1111/psyp.12847
12. Stoianov, I.P., Pennartz, C.M.A., Lansink, C.S., Pezzulo, G.
Model-based spatial navigation in the hippocampus-ventral striatum circuit: A computational analysis
(2018) *PLoS Computational Biology*, 14 (9), art. no. e1006316, . IF 4.70 Cited 9 times.
DOI: 10.1371/journal.pcbi.1006316
13. Pezzulo, G., Donnarumma, F., Maisto, D., Stoianov, I.
Planning at decision time and in the background during spatial navigation
(2019) *Current Opinion in Behavioral Sciences*, 29, pp. 69-76. IF 4.47 Cited 7 times.
DOI: 10.1016/j.cobeha.2019.04.009
14. Stoianov, I.P., Zorzi, M.
Computational foundations of the visual number sense
(2017) *The Behavioral and brain sciences*, 40, p. e191. IF 17.33 Cited 7 times.
DOI: 10.1017/S0140525X16002326
15. Montani, V., Chanoine, V., Stoianov, I.P., Grainger, J., Ziegler, J.C.
Steady state visual evoked potentials in reading aloud: Effects of lexicality, frequency and orthographic familiarity
(2019) *Brain and Language*, 192, pp. 1-14. I.F. 2.3 Cited 6 times.
DOI: 10.1016/j.bandl.2019.01.004
16. Beyersmann, E., Montani, V., Ziegler, J.C., Grainger, J., Stoianov, I.P.
The dynamics of reading complex words: evidence from steady-state visual evoked potentials.
(2021) *Sci Rep* **11**, 15919. <https://doi.org/10.1038/s41598-021-95292-0>