



CURRICULUM VITAE

PERSONAL INFORMATION	Name and Surname: Aurora D'Atri Department: Department of Biotechnological and Applied Clinical Sciences Address (work): Via Vetoio (Coppito 2) City: Coppito (AQ) postal code: 67100 Nation: Italy E-mail address (work): aurora.datri@univaq.it
CURRENT POSITION	Researcher (RTDb)
EDUCATION OTHER QUALIFICATIONS	2015 Sapienza University of Rome, Ph.D. Psychology and Cognitive science 2011 Sapienza University of Rome, MS Psychology and Medicine: Cognitive neurosciences and psychological rehabilitation (Experimental curriculum) 2009 Sapienza University of Rome, BD Psychology: Psychological sciences and techniques for the analysis of normal and pathological cognitive processes (Cognitive-computing curriculum)
ACADEMIC APPOINTMENTS	2021 Member staff of the Doctorate school in Psychology and Cognitive science Sapienza University of Rome October 2020 Researcher at the Department of Biotechnological and Applied Clinical Sciences, University of L'Aquila November 2018 National Scientific Qualification as Associate Professor (SC: 11/E1, ssd: M-PSI/02)
TEACHING EXPERIENCE	A.A. 2020/2021 University of L'Aquila BD Applied Psychological Sciences (L24) Psychobiology of Emotions (48 hrs) MD Applied and clinical psychology (LM51) Psychobiology of learning and memory (24 hrs) Neuropsychology and Psychophysiology – Mod. Clinical Psychophysiology (24 hrs) A.A. 2017/2018 – A.A. 2019/2020 Sapienza University of Rome Doctorate in Psychology and Cognitive science Programming for data analysis, graphic representation, and experiment design in MatLab environment – Basic course (18 hrs), Advanced course (10 hrs)



RESEARCH ACTIVITIES	<p>2020-2023 Researcher (RTDb) Position, Department of Biotechnological and Applied Clinical Sciences (DISCAB), University of L'Aquila,</p> <p>2019-2020 Post-Doc. Position, Sleep Psychophysiology Laboratory, Department of Psychology – “Sapienza” University of Rome</p> <p>2017-2018 Post-Doc. Position, Sleep Psychophysiology Laboratory, Department of Psychology – “Sapienza” University of Rome</p> <p>2015-2017 Post-Doc. Position, Sleep Psychophysiology Laboratory, Department of Psychology – “Sapienza” University of Rome</p> <p>Research areas:</p> <ul style="list-style-type: none">EEG alterations during sleep and wakefulness in Alzheimer’s disease and Mild Cognitive ImpairmentEEG correlates of dreaming in the life span and in clinical populationSleep and cortical maturationElectrophysiological and behavioural effects of sleep deprivationModulation of the EEG activity during wakefulness and sleep by non-invasive transcranial stimulation techniquesElectrophysiology of the sleep onsetRelationship between sleep and high cognitive processes <p>Congress presentation</p> <p>25-27 October 2020 XXX Congresso Nazionale AIMS "Il Sonno e i suoi disturbi al tempo del Covid-19" Invited Speaker Title: “Quantificazione del segnale EEG in sonno” Web conference, Parma, Italia</p> <p>7-11 October 2017 Congress of the World Sleep Society Poster session Title: “<i>Sleep and cortical maturation: slow and fast sleep spindles in the first 4 years of life</i>” Prague, Czech Republic</p> <p>28-30 September 2017 XXVII Congresso Nazionale AIMS “Medicina del Sonno nelle Epoche della Vita: Ricerca e Assistenza del Futuro” Oral communication at Young researchers Symposium Title: “<i>Sonno e maturazione corticale: cambiamenti nelle caratteristiche del sonno NREM nei primi quattro anni di vita.</i>” Bolzano, Italia</p> <p>13-16 September 2016</p>
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	<p>XXIII Congress of the European Sleep Research Society Poster session Title: <i>"30 Hz transcranial Alternating Current Stimulation on frontal cortex blocks the spontaneous sleepiness associated with resting state with eyes closed"</i> Bologna, Italia</p> <p>12-13 September 2016 XXVI Congresso Nazionale AIMS "Per una medicina del sonno personalizzata" Oral communication Title: <i>"Topografia EEG del sonno e della veglia in MCI: studio longitudinale dei markers predittivi della conversione in Alzheimer"</i> Bologna, Italia</p> <p>5-8 November 2014 XXIV Congresso Nazionale AIMS "Dalla ricerca di base alla clinica" Oral communication at Young researchers Symposium Title: <i>"Manipolazione sperimentale dei livelli di sonnolenza e di vigilanza mediante tACS e tDCS oscillatoria: effetti frequenza-specifici su ritmi spontanei EEG e misure soggettive di sonnolenza"</i> Pisa, Italia</p> <p>16-20 September 2014 XXII Congress of the European Sleep Research Society Poster session Title: <i>"Modulation of spontaneous cortical synchronization by tACS: effects on resting wake and sleep"</i> Tallin, Estonia</p>
<p>EDITORIAL BOARD, EDITORIAL ACTIVITIES, SOCIETY MEMBERSHIP</p>	<p>Member of the Società Italiana di Ricerca sul Sonno (S.I.R.S) until 2013 Member of the Associazione Italiana di Medicina del Sonno (A.I.M.S) Editorial Board Member of the Journal of current Neurobiology Review Editor in the Editorial Board of Frontiers in Psychology (section Psychology for Clinical Settings) Topic Editor for Brain Science Reviewer for Frontiers in Psychiatry, International Journal of Environmental Research and Public Health, Brain Science, Neuromodulation</p>
<p>SCIENTIFIC ACHIEVEMENTS BIBLIOMETRIC INDICATORS</p>	<p>Scopus Author ID: 57211392020 http://orcid.org/0000-0003-3650-0683 Indicatori Bibliometrici (fonti Scopus) Hirsch (H) Index: 13 i10-Hirsch (H): 14 Index normalized: 1.6 Total Citations: 400 Average Citations per product: 10.3</p>



SELECTED PUBLICATIONS

Scientific Papers

1. Reda F., Gorgoni M., **D'Atri A.**, Scarpelli S., Carpi M., Di Cola E., Menghini D., Vicari S., Stella G., De Gennaro L., Sleep-related declarative memory consolidation in children and adolescents with developmental dyslexia, 2021, 11, 1, 73, 1, 17, 10.3390/brainsci11010073
2. Gorgoni M., **D'Atri A.**, Scarpelli S., Ferrara M., De Gennaro L., The electroencephalographic features of the sleep onset process and their experimental manipulation with sleep deprivation and transcranial electrical stimulation protocols, 2020, 114, 25, 37, 10.1016/j.neubiorev.2020.04.003
3. Scarpelli S., **D'Atri A.**, Bartolacci C., Gorgoni M., Mangiaruga A., Ferrara M., De Gennaro L., Dream recall upon awakening from non-rapid eye movement sleep in older adults: Electrophysiological pattern and qualitative features, 2020, 10, 6, 3434, 10.3390/brainsci10060343
4. Bartolacci C., Scarpelli S., **D'Atri A.**, Gorgoni M., Annarumma L., Cloos C., Giannini A.M., De Gennaro L., The influence of sleep quality, vigilance, and sleepiness on driving-related cognitive abilities: A comparison between young and older adults, 2020, 10, 6, 327, 10.3390/brainsci10060327
5. Salfi F., **D'Atri A.**, Tempesta D., De Gennaro L., Ferrara M., Boosting slow oscillations during sleep to improve memory function in elderly people: A review of the literature, 2020, 10, 5, 300, 10.3390/brainsci10050300
6. Brunetti V., **D'Atri A.**, Della Marca G., Vollono C., Marra C., Vita M.G., Scarpelli S., De Gennaro L., Rossini P.M., Subclinical epileptiform activity during sleep in Alzheimer's disease and mild cognitive impairment, 2020, 131, 51011, 10182, 10.1016/j.clinph.2020.02.015
7. Alfonsi V., Scarpelli S., **D'Atri A.**, Stella G., De Gennaro L., Later school start time: The impact of sleep on academic performance and health in the adolescent population, 2020, 17, 7, 25742, 10.3390/ijerph17072574
8. Gorgoni M., **D'Atri A.**, Scarpelli S., Reda F., De Gennaro L., Sleep electroencephalography and brain maturation: developmental trajectories and the relation with cognitive functioning, 2020, 66, 33, 505, 10.1016/j.sleep.2019.06.025
9. Scarpelli S., Bartolacci C., **D'Atri A.**, Camaioni M., Annarumma L., Gorgoni M., Cloos C., Ferrara M., De Gennaro L., Electrophysiological correlates of dream recall during rem sleep: Evidence from multiple awakenings and within-subjects design, 2020, 12, 1043, 1052, 10.2147/NSS.S279786
10. Alfonsi V., Palmizio R., Rubino A., Scarpelli S., Gorgoni M., **D'Atri**



- A.**, Pazzaglia M., Ferrara M., Giuliano S., De Gennaro L., The association between school start time and sleep duration, sustained attention, and academic performance, 2020, 12, 1161, 1172, 10.2147/NSS.S273875
11. Scarpelli S., Bartolacci C., **D'Atri A.**, Gorgoni M., De Gennaro L., Mental sleep activity and disturbing dreams in the lifespan, 2019, 16, 19, 36585, 10.3390/ijerph16193658
 12. Scarpelli S., **D'Atri A.**, Bartolacci C., Mangiaruga A., Gorgoni M., De Gennaro L., Oscillatory EEG Activity During REM Sleep in Elderly People Predicts Subsequent Dream Recall After Awakenings, 2019, 10, 9857, 10.3389/fneur.2019.00985
 13. Gorgoni M., Reda F., **D'Atri A.**, Scarpelli S., Ferrara M., De Gennaro L., The heritability of the human K-complex: A twin study, 2019, 42, 6, zsz0539, 10.1093/sleep/zsz053
 14. Alfonsi V., **D'Atri A.**, Scarpelli S., Mangiaruga A., De Gennaro L., Sleep talking: A viable access to mental processes during sleep, 2019, 44, 12, 225, 10.1016/j.smrv.2018.12.001
 15. **D'Atri A.**, Scarpelli S., Schiappa C., Pizza F., Vandi S., Ferrara M., Cipolli C., Plazzi G., De Gennaro L., Cortical activation during sleep predicts dream experience in narcolepsy, 2019, 6, 3445, 4558, 10.1002/acn3.718
 16. Gorgoni M., **D'Atri A.**, Scarpelli S., Ferrara M., De Gennaro L., Timing and Topography of Sleep Onset: Asynchronies and Regional Changes of Brain Activity, 2019, 30, 19, 312, 10.1016/B978-0-12-813743-7.00002-5
 17. Scarpelli S., Gorgoni M., **D'Atri A.**, Ferrara M., De Gennaro L., Structural and Functional Differences in Brain Mechanisms of Dream Recall, 2019, 30, 269, 2812, 10.1016/B978-0-12-813743-7.00018-9
 18. Scarpelli S., Bartolacci C., **D'Atri A.**, Gorgoni M., De Gennaro L., The functional role of dreaming in emotional processes, 2019, 10, MAR, 45917, 10.3389/fpsyg.2019.00459
 19. Alfonsi V., **D'Atri A.**, Gorgoni M., Scarpelli S., Mangiaruga A., Ferrara M., De Gennaro L., Spatiotemporal dynamics of sleep spindle sources across NREM sleep cycles, 2019, 13, JUL, 7271, 10.3389/fnins.2019.00727
 20. Gorgoni M., Bartolacci C., **D'Atri A.**, Scarpelli S., Marzano C., Moroni F., Ferrara M., De Gennaro L., The spatiotemporal pattern of the human electroencephalogram at sleep onset after a period of prolonged wakefulness, 2019, 13, APR, 3124, 10.3389/fnins.2019.00312
 21. **D'Atri A.**, Scarpelli S., Gorgoni M., Alfonsi V., Annarumma L., Giannini A.M., Ferrara M., Ferlazzo F., Rossini P.M., De Gennaro L., Bilateral theta transcranial alternating current stimulation (tacs)



modulates EEG activity: When tACS works awake it also works asleep,2019,11,343,3561,10.2147/NSS.S229925

22. Schiappa C., Scarpelli S., **D'Atri A.**, Gorgoni M., De Gennaro L., Narcolepsy and emotional experience: A review of the literature,2018,14,1, 198,10.1186/s12993-018-0151-x,
23. Annarumma L., **D'Atri A.**, Alfonsi V., De Gennaro L., The efficacy of transcranial current stimulation techniques to modulate resting-state EEG, to affect vigilance and to promote sleepiness,2018,8,7, 13714,10.3390/brainsci8070137
24. **D'Atri A.**, Novelli L., Ferrara M., Bruni O., De Gennaro L., Different maturational changes of fast and slow sleep spindles in the first four years of life,2018,42,73,8213,10.1016/j.sleep.2017.11.1138
25. **D'Atri A.**, Romano C., Gorgoni M., Scarpelli S., Alfonsi V., Ferrara M., Ferlazzo F., Rossini P.M., De Gennaro L., Bilateral 5 Hz transcranial alternating current stimulation on fronto-orbital areas modulates resting-state EEG,2017,7,1, 156726,10.1038/s41598-017-16003-2
26. Scarpelli S., **D'Atri A.**, Mangiaruga A., Marzano C., Gorgoni M., Schiappa C., Ferrara M., De Gennaro L., Predicting Dream Recall: EEG Activation During NREM Sleep or Shared Mechanisms with Wakefulness?,2017,30,5629,63828,10.1007/s10548-017-0563-1
27. Reda F., Gorgoni M., Lauri G., Truglia I., Cordone S., Scarpelli S., Mangiaruga A., **D'Atri A.**, Ferrara M., Lacidogna G., Marra C., Rossini P.M., De Gennaro L., In search of sleep biomarkers of Alzheimer's disease: K-complexes do not discriminate between patients with mild cognitive impairment and healthy controls,2017,7,5, 5120,10.3390/brainsci7050051
28. De Gennaro L., Gorgoni M., Reda F., Lauri G., Truglia I., Cordone S., Scarpelli S., Mangiaruga A., **D'Atri A.**, Lacidogna G., Ferrara M., Marra C., Rossini P.M., The Fall of Sleep K-Complex in Alzheimer Disease,2017,7 3968836,10.1038/srep39688
29. Novelli L., **D'atri A.**, Marzano C., Finotti E., Ferrara M., Bruni O., De Gennaro L., Mapping changes in cortical activity during sleep in the first 4 years of life,2016,25,4381,38915,10.1111/jsr.12390
30. **D'Atri A.**, De Simoni E., Gorgoni M., Ferrara M., Ferlazzo F., Rossini P.M., De Gennaro L., Electrical stimulation of the frontal cortex enhances slow-frequency EEG activity and sleepiness, 2016, 324, 119,13013,10.1016/j.neuroscience.2016.03.007
31. Gorgoni M., Lauri G., Truglia I., Cordone S., Sarasso S., Scarpelli S., Mangiaruga A., **D'Atri A.**, Tempesta D., Ferrara M., Marra C., Rossini P.M., De Gennaro L., Parietal Fast Sleep Spindle Density Decrease in Alzheimer's Disease and Amnesic Mild Cognitive Impairment,2016,2016 837610851,10.1155/2016/8376108
32. Scarpelli S., Marzano C., **D'Atri A.**, Gorgoni M., Ferrara M., De



Gennaro L., State-or trait-like individual differences in dream recall: Preliminary findings from a within-subjects study of multiple nap REM sleep awakenings, 2015, 6, 92818, 10.3389/fpsyg.2015.00928

33. Scarpelli S., **D'Atri A.**, Gorgoni M., Ferrara M., De Gennaro L., EEG oscillations during sleep and dream recall: State- or trait-like individual differences?, 2015, 6, MAY, 60522, 10.3389/fpsyg.2015.00605
34. **D'Atri A.**, De Simoni E., Gorgoni M., Ferrara M., Ferlazzo F., Rossini P.M., De Gennaro L., Frequency-dependent effects of oscillatory-tDCS on EEG oscillations: A study with better oscillation detection method (BOSC), 2015, 153, 2-323, 5
35. Gorgoni M., Ferlazzo F., **D'Atri A.**, Lauri G., Ferrara M., Rossini P.M., De Gennaro L., The assessment of somatosensory cortex plasticity during sleep deprivation by paired associative stimulation, 2015, 153, 2-334, 3
36. Gorgoni M., Ferrara M., **D'Atri A.**, Lauri G., Scarpelli S., Truglia I., De Gennaro L., EEG topography during sleep inertia upon awakening after a period of increased homeostatic sleep pressure, 2015, 16, 7883, 89014, 10.1016/j.sleep.2015.03.009
37. Gorgoni M., Ferlazzo F., Ferrara M., Moroni F., **D'Atri A.**, Fanelli S., Gizzi Torriglia I., Lauri G., Marzano C., Rossini P.M., De Gennaro L., Topographic electroencephalogram changes associated with psychomotor vigilance task performance after sleep deprivation, 2014, 15, 91132, 113925, 10.1016/j.sleep.2014.04.022
38. Gorgoni M., Ferlazzo F., Moroni F., **D'Atri A.**, Donarelli S., Fanelli S., Gizzi Torriglia I., Lauri G., Ferrara M., Marzano C., Rossini P.M., Bramanti P., De Gennaro L., Sleep deprivation affects somatosensory cortex excitability as tested through median nerve stimulation, 2014, 7, 5732, 7397, 10.1016/j.brs.2014.04.006
39. Gorgoni M., **D'Atri A.**, Lauri G., Rossini P.M., Ferlazzo F., De Gennaro L., Is sleep essential for neural plasticity in humans, and how does it affect motor and cognitive recovery?, 2013, 2013, 10394928, 10.1155/2013/103949

Book Chapters

1. Gorgoni M., **D'Atri A.**, Scarpelli S., Ferrara M., De Gennaro L. Timing and topography of sleep onset: asynchronies and regional changes of brain activity. In: "Handbook of Behavioral Neuroscience". Vol. 30. Dringenberg, H., ed., Elsevier, 2019. p. 19-31. <https://doi.org/10.1016/B978-0-12-813743-7.00002-5>
2. Scarpelli S., Gorgoni M., **D'Atri A.**, Ferrara M., De Gennaro L. Structural and functional differences in brain mechanisms of dream recall. In: "Handbook of Behavioral Neuroscience". Vol. 30.



	<p>Dringenberg, H. ed., Elsevier, 2019. p. 269-281. https://doi.org/10.1016/B978-0-12-813743-7.00018-9</p> <ol style="list-style-type: none">3. Scarpelli, S., Marzano, C., D'Atri, A., Gorgoni, M., Ferrara, M. and De Gennaro, L. State-or trait-like individual differences in dream recall: preliminary findings from a within-subjects study of multiple nap REM sleep awakenings. In: Kirov, R., ed. Brain Oscillations and Predictive Coding: What We Know and What We Should Learn. Lausanne: Frontiers Media. pagg. 41-46; 2017. ISSN 1664-8714 ISBN 978-2-88945-161-6 doi: 10.3389/978-2-88945-161-64. Scarpelli, S., D'Atri, A., Gorgoni, M., Ferrara, M. and De Gennaro, L. EEG oscillations during sleep and dream recall: state-or trait-like individual differences? In: Kirov, R., ed. Brain Oscillations and Predictive Coding: What We Know and What We Should Learn. Lausanne: Frontiers Media. pagg. 47-56; 2017. ISSN 1664-8714 ISBN 978-2-88945-161-6 doi: 10.3389/978-2-88945-161-6
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