

Curriculum Vitæ

Informazioni personali

Nome DUGGENTO Andrea
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Cittadinanza ITA
Data di nascita 03/03/1981

Titoli di studio

Data di conseguimento 28/07/2015
Titolo conseguito Altro titolo di studio
Descrizione Specializzazione in Fisica Medica
Voto conseguito 70/70 E LODE
Nome e indirizzo istituzione Università degli Studi di ROMA "Tor Vergata" - Via Cracovia n. 50 - ROMA

Data di conseguimento 01/11/2009
Titolo conseguito Dottore di ricerca
Descrizione DOTTORATO DI RICERCA IN FISICA
Nome e indirizzo istituzione LANCASTER UNIVERSITY (u.k.) -
Tipo istituzione Università straniera

Data di conseguimento 21/10/2005
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Esperienze

Periodo 15/10/2020 - oggi
Posizione Ricercatore universitario a t.d.
Qualifica Ricercatore a t.d. - t.pieno (art. 24 c.3-b L. 240/10)
Nome e indirizzo istituzione Università degli Studi di ROMA "Tor Vergata" - Via Cracovia n. 50 - ROMA
Struttura Dip. L.240/2010 Biomedicina e Prevenzione

Periodo 01/06/2017 - 31/05/2020
Posizione Ricercatore universitario a t.d.
Qualifica Ricercatore a t.d. - t.pieno (art. 24 c.3-a L. 240/10)
Nome e indirizzo istituzione Università degli Studi di ROMA "Tor Vergata" - Via Cracovia n. 50 - ROMA

Struttura	Dip. L.240/2010 Biomedicina e Prevenzione
Periodo	01/12/2014 - 30/11/2015
Posizione	Assegnista di ricerca
Nome e indirizzo istituzione	Università degli Studi di ROMA "Tor Vergata" - Via Cracovia n. 50 - ROMA
Struttura	Dip. L.240/2010 Biomedicina e Prevenzione
Periodo	01/12/2013 - 30/11/2014
Posizione	Assegnista di ricerca
Nome e indirizzo istituzione	Università degli Studi di ROMA "Tor Vergata" - Via Cracovia n. 50 - ROMA
Struttura	Dip. L.240/2010 Biomedicina e Prevenzione
Periodo	02/09/2013 - 31/12/2013
Posizione	Professore a contratto
Qualifica	Professore a contratto
Tipo di attività svolta	Attività didattica del corso di "Elementi di Fisica delle radiazioni" nell'ambito del corso di "Fisica Applicata" presso il Corso di Laurea in Medicina e Chirurgia della Facoltà di Medicina e Chirurgia.
Nome e indirizzo istituzione	Università degli Studi di ROMA "Tor Vergata" - Via Cracovia n. 50 - ROMA
Struttura	Dip. L.240/2010 Biomedicina e Prevenzione
Periodo	01/12/2012 - 30/11/2013
Posizione	Assegnista di ricerca
Nome e indirizzo istituzione	Università degli Studi di ROMA "Tor Vergata" - Via Cracovia n. 50 - ROMA
Struttura	Dip. L.240/2010 Biomedicina e Prevenzione
Periodo	01/10/2012 - 31/01/2013
Posizione	Attività didattica
Qualifica	Cultore della materia
Tipo di attività svolta	Attività didattica del corso di "Elementi di Fisica delle radiazioni" nell'ambito del corso di laurea triennale di "Scienze Infermieristiche" presso la Facoltà di Medicina e Chirurgia.
Nome e indirizzo istituzione	Università degli Studi di ROMA "Tor Vergata" - Via Cracovia n. 50 - ROMA
Struttura	Dip. L.240/2010 Biomedicina e Prevenzione
Periodo	01/06/2011 - 30/11/2012
Posizione	Assegnista di ricerca
Nome e indirizzo istituzione	Università degli Studi di ROMA "Tor Vergata" - Via Cracovia n. 50 - ROMA
Struttura	Dip. BIOPATOLOGIA E DIAGNOSTICA PER IMMAGINI
Periodo	31/01/2011 - 30/09/2011
Posizione	Professore a contratto
Qualifica	Professore a contratto
Tipo di attività svolta	Insegnamento "Elementi di Fisica di Base" del corso integrato di "Fisica e Statistica", presso il Corso di Laurea in Medicina e Chirurgia.
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Struttura	Dip. BIOPATOLOGIA E DIAGNOSTICA PER IMMAGINI
Periodo	01/10/2010 - 31/01/2011
Posizione	Attività didattica
Qualifica	Cultore della materia
Tipo di attività svolta	Attività didattica integrativa: cultore della materia nell'ambito dell'insegnamento di "Fisica Applicata" presso corsi di Laurea Triennale delle professioni sanitarie della Facoltà di Medicina e Chirurgia.
Nome e indirizzo istituzione	Università degli Studi di ROMA "Tor Vergata" - Via Cracovia n. 50 - ROMA

Elenco dei prodotti della ricerca

Ellingsen D. -M., Duggento A., Isenburg K., Jung C., Lee J., Gerber J., Mawla I., Sclocco R., Edwards R. R., Kelley J. M., Kirsch I., Kaptchuk T. J., Toschi N., Napadow V. (2022). Patient-clinician brain concordance underlies causal dynamics in nonverbal communication and negative affective expressivity. TRANSLATIONAL PSYCHIATRY, vol. 12, ISSN: 2158-3188, doi: 10.1038/s41398-022-01810-7

Conti A, Duggento A, Indovina I, Guerrisi M, Toschi N (2021). Radiomics in breast cancer classification and prediction. SEMINARS IN CANCER BIOLOGY, vol. 72, p. 238-250, ISSN: 1044-579X, doi: 10.1016/j.semcancer.2020.04.002

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Conti A., Kamimura H. A. S., Novell A., Duggento A., Toschi N. (2021). Editorial: Magnetic Resonance-Guided Focused Ultrasound: Physical Principles and Biomedical Applications. FRONTIERS IN PHYSICS, vol. 9, ISSN: 2296-424X, doi: 10.3389/fphy.2021.683899

Duggento A, Conti A, Mauriello A, Guerrisi M, Toschi N (2021). Deep computational pathology in breast cancer. SEMINARS IN CANCER BIOLOGY, vol. 72, p. 226-237, ISSN: 1044-579X, doi: 10.1016/j.semcancer.2020.08.006

Duggento A., Conti A., Guerrisi M., Toschi N. (2021). A novel multi-branch architecture for state of the art robust detection of pathological phonocardiograms. PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES A: MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES, vol. 379, ISSN: 1364-503X, doi: 10.1098/rsta.2020.0264

Duggento A., Conti A., Guerrisi M., Toschi N. (2021). Classification of real-world pathological phonocardiograms through multi-instance learning. In: ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY. ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, p. 771-774, IEEE, ISSN: 2694-0604, doi: 10.1109/EMBC46164.2021.9630705

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Penner G., Lecocq S., Chopin A., Vedoya X., Lista S., Vergallo A., Cavedo E., Lejeune F. -X., Dubois B., Hampel H., Bakardjian H., Benali H., Bertin H., Bonheur J., Boukadida L., Boukerrou N., Chiesa P. A., Colliot O., Dubois M., Epelbaum S., Gagliardi G., Genthon R., Habert M. -O., Houot M., Kas A., Lamari F., Levy M., Metzinger C., Mochel F., Nyasse F., et al. (2021). Aptamer prediction of brain amyloid- β status in cognitively normal individuals at risk for Alzheimer's

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Baldacci F., Lista S., Manca M. L., Chiesa P. A., Cavedo E., Lemercier P., Zetterberg H., Blennow K., Habert M. -O., Potier M. C., Dubois B., Vergallo A., Hampel H., Bakardjian H., Benali H., Bertin H., Bonheur J., Boukadida L., Boukerrou N., Chiesa P., Colliot O., Dubois M., Epelbaum S., Gagliardi G., Genthon R., Houot M., Kas A., Lamari F., Levy M., Metzinger C., et al. (2020). Age and sex impact plasma NFL and t-Tau trajectories in individuals with subjective memory complaints: a 3-year follow-up study. ALZHEIMER'S RESEARCH & THERAPY, vol. 12, 147, ISSN: 1758-9193, doi: 10.1186/s13195-020-00704-4

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Dimitri G. M., Spasov S., Duggento A., Passamonti L., Lio P., Toschi N. (2020). Unsupervised stratification in neuroimaging through deep latent embeddings. In: 42nd Annual international conferences of the IEEE engineering in medicine and biology society: enabling innovative technologies for global healthcare EMBC'20. IEEE ENGINEERING IN MEDICINE AND BIOLOGY ... ANNUAL CONFERENCE PROCEEDINGS, p. 1568-1571, Institute of Electrical and Electronics Engineers Inc., ISSN: 1557-170X, Montreal (Canada), 2020, doi: 10.1109/EMBC44109.2020.9175810

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Hampel H., Lista S., Vanmechelen E., Zetterberg H., Giorgi F. S., Galgani A., Blennow K., Caraci F., Das B., Yan R., Vergallo A., Aguilar L. F., Akman-Anderson L., Arenas J., Avila J., Babiloni C., Baldacci F., Batrla R., Benda N., Black K. L., Bokde A. L. W., Bonuccelli U.,

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Toschi N., Duggento A., Guerrisi M., Passamonti L. (2020). Multidimensional autonomic nervous system profiles relate to psychiatric disturbances, emotion and personality. In: 2020 11TH CONFERENCE OF THE EUROPEAN STUDY GROUP ON CARDIOVASCULAR OSCILLATIONS (ESGCO): COMPUTATION AND MODELLING IN PHYSIOLOGY NEW CHALLENGES AND OPPORTUNITIES. p. 1-2, Institute of Electrical and Electronics Engineers Inc., 2020, doi: 10.1109/ESGCO49734.2020.9158162

Valenza G, Passamonti L, Duggento A, Toschi N, Barbieri R (2020). Uncovering complex central autonomic networks at rest: a functional magnetic resonance imaging study on complex cardiovascular oscillations. JOURNAL OF THE ROYAL SOCIETY INTERFACE, vol. 17, ISSN: 1742-5689, doi: 10.1098/rsif.2019.0878

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Vergallo A., Lista S., Lemercier P., Chiesa P. A., Zetterberg H., Blennow K., Potier M. -C., Habert M. -O.,

Baldacci F., Cavedo E., Caraci F., Dubois B., Hampel H., Bakardjian H., Benali H., Bertin H., Bonheur J., Boukadida L., Boukerrou N., Chiesa P., Colliot O., Dubois M., Epelbaum S., Gagliardi G., Genthon R., Houot M., Kas A., Lamari F., Levy M., Metzinger C., et al. (2020). Association of plasma YKL-40 with brain amyloid- β levels, memory performance, and sex in subjective memory complainers. *NEUROBIOLOGY OF AGING*, vol. 96, p. 22-32, ISSN: 0197-4580, doi: 10.1016/j.neurobiolaging.2020.07.009

Aiello M., Cavaliere C., Fiorenza D., Duggento A., Passamonti L., Toschi N. (2019). Neuroinflammation in Neurodegenerative Diseases: Current Multi-modal Imaging Studies and Future Opportunities for Hybrid PET/MRI. *NEUROSCIENCE*, vol. 403, p. 125-135, ISSN: 0306-4522, doi: 10.1016/j.neuroscience.2018.07.033

Chiesa P. A., Cavedo E., Vergallo A., Lista S., Potier M. -C., Habert M. -O., Dubois B., Thiebaut de Schotten M., Hampel H., Bakardjian H., Benali H., Bertin H., Bonheur J., Boukadida L., Boukerrou N., Chiesa P., Colliot O., Dubois M., Epelbaum S., Gagliardi G., Genthon R., Houot M., Kas A., Lamari F., Levy M., Metzinger C., Mochel F., Nyasse F., Poisson C., Revillon M., et al. (2019). Differential default mode network trajectories in asymptomatic individuals at risk for Alzheimer's disease. *ALZHEIMER'S & DEMENTIA*, vol. 15, p. 940-950, ISSN: 1552-5279, doi: 10.1016/j.jalz.2019.03.006

Conti A., Duggento A., Guerrisi M., Passamonti L., Indovina I., Toschi N. (2019). Variability and reproducibility of directed and undirected functional MRI connectomes in the human brain. *ENTROPY*, vol. 21, ISSN: 1099-4300, doi: 10.3390/e21070661

Duggento A., Aiello M., Cavaliere C., Cascella G. L., Cascella D., Conte G., Guerrisi M., Toschi N. (2019). An Ad Hoc random initialization deep neural network architecture for discriminating malignant breast cancer lesions in mammographic images. *CONTRAST MEDIA & MOLECULAR IMAGING*, vol. 2019, p. 1-9, ISSN: 1555-4309, doi: 10.1155/2019/5982834

Duggento A., Guerrisi M., Toschi N. (2019). Recurrent

neural networks for reconstructing complex directed brain connectivity. In: EMBC proceedings. p. 6418-6421, Institute of Electrical and Electronics Engineers Inc., doi: 10.1109/EMBC.2019.8856721

Duggento A., Scimeca M., Urbano N., Bonanno E., Aiello M., Cavaliere C., Cascella G. L., Cascella D., Conte G., Guerrisi M., Toschi N. (2019). A random initialization deep neural network for discriminating malignant breast cancer lesions. In: Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). IEEE ENGINEERING IN MEDICINE AND BIOLOGY ... ANNUAL CONFERENCE PROCEEDINGS, p. 912-915, Institute of Electrical and Electronics Engineers Inc., ISSN: 1557-170X, doi: 10.1109/EMBC.2019.8856740

Duggento A., Toschi N., Pietroiusti A., Musmeci L., Buonomo E., Moramarco S., Lucaroni F., Boffetta P., Palombi L. (2019). A novel approach for geographical risk mapping of morbidity and mortality rates: the case of Val D'Agri, Italy. SCIENTIFIC REPORTS, vol. 9, ISSN: 2045-2322, doi: 10.1038/s41598-019-46479-z

Duggento A., Valenza G., Passamonti L., Nigro S., Bianco M. G., Guerrisi M., Barbieri R., Toschi N. (2019). A parsimonious granger causality formulation for capturing arbitrarily long multivariate associations. ENTROPY, vol. 21, ISSN: 1099-4300, doi: 10.3390/e21070629

Hampel H, Vergallo A, Perry G, Lista S, Aguilar LF, Babiloni C, Baldacci F, Benda N, Black KL, Bokde ALW, Bonuccelli U, Broich K, Cacciola F, Castrillo J, Cavedo E, Ceravolo R, Chiesa PA, Corvol JC, Cuello AC, Cummings JL, Depypere H, Dubois B, Duggento A, Escott-Price V, Federoff H, Ferretti MT, Fiandaca M, Frank RA, Garaci F, Geerts H, et al. (2019). The Alzheimer Precision Medicine Initiative. JOURNAL OF ALZHEIMER'S DISEASE, vol. 68, p. 1-24, ISSN: 1387-2877, doi: 10.3233/JAD-181121

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Lista S., Aguilar L. F., Babiloni C., Baldacci F., Black K. L., Bokde A. L. W., Bonuccelli U., Cacciola F., Castrillo J., Cavedo E., Ceravolo R., Chiesa P. A., Corvol J. -C., et al. (2019). Blood-based systems biology biomarkers for next-generation clinical trials in Alzheimer's disease. *DIALOGUES IN CLINICAL NEUROSCIENCE*, vol. 21, p. 177-191, ISSN: 1294-8322, doi: 10.31887/DCNS.2019.21.2/hhampel

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Premi e riconoscimenti

Premio/riconoscimento	Premio AIRMM miglior contributo a congresso (2016)
Assegnato da	ISMIRM Italian Chapter, Bologna, 2016
Per	Titolo del contributo: "A Volterra-Wiener decomposition approach to estimating directed functional brain networks".
Premio/riconoscimento	Premio miglior lavoro scientifico presentato a primo nome da uno Specializzando in Fisica Medica (2013)
Assegnato da	Associazione Italiana Fisica Medica (AIFM)
Per	Premio miglior lavoro scientifico presentato a primo nome da uno Specializzando in Fisica Medica