

PERSONAL INFORMATION

Alessandro Bombaci

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Sex male | Nationality Italian

POSITION

PhD student in Neuroscience at the University of Turin

Medical Doctor, Specialist in Neurology

Member of CRESLA teamwork directed by Professor Adriano Chiò

Coordinator of SigN (Italian Society of Young Neurology)

Member of the executive board of the young section of Turin Medicine Academy (called "Amici e Amiche dell'Accademia di Torino")

Member of "EAN Scientific Panels ALS and frontotemporal dementia"

WORK EXPERIENCE

From Nov '19 to Now	PhD student in Neuroscience at the University of Turin.
From Apr '19 to Oct '19	Resident in Neurology Department in San Giovanni Battista Hospital (Torino)
In March '19	Resident in Neurology and Neurorehabilitation Department in Piancavallo Auxological Hospital
From Nov '18 to Feb '19	Research experience in the field of Motor Neuron diseases at UCLH (University College of London Hospital)
From Aug '18 to Oct '18	Luigi Gonzaga Hospital (Orbassano)
From Sep '17 to July '18	Resident in Neurology Department in San Giovanni Battista Hospital (Torino)
From May '17 to Aug '17	Resident in Neuro-Oncology Ward in San Giovanni Battista Hospital (Torino)
From nov '16 to Apr '17	Resident in Neurology Department in Santa Croce Hospital (Cuneo)
From Aug '16 to Oct '16	Resident in Emergency Department in San Giovanni Battista Hospital (Torino)
From feb '16 to aug '16	Resident in Neurology Department in San Giovanni Battista Hospital (Torino)
From nov '15 to feb '16	Resident in the Stroke Unit Ward of Neurology Department in San Giovanni Battista Hospital (Torino)

EDUCATION AND TRAINING

University Qualification

Title of qualification awarded

MD, Specialist in Neurology

Name and type of organisation providing education and training

University of Turin – Medical School of Neurology - Italy

Period of study

Between November 2015 to October 2019.

Average of exams

30/30

Degree in Neurology

70/70 cum Laude.

Medical Degree

Title of qualification awarded

Medical Doctor Degree

Name and type of organisation providing education and training

University of Turin - Faculty of Medicine - Italy

Period of study

Between October 2009 to March 2015. I graduated in 5 years and a half, instead of traditional six years, having followed an Advanced Course, first in the story of my faculty.

Average of exams

29/30

Medical Degree

110/110 cum Laude. I received the honorable mention and my experimental final thesis was published. Title: "The immunosuppressive role of Alemtuzumab in multiple sclerosis therapy: immunological study lasted 2 years".

High School Qualification

Title of qualification awarded

High School Leaving Certificate

Principal subjects/occupational skills covered

Physics, Mathematics, Computer science, Natural science, Biology, Chemistry

Name and type of organisation providing education and training

Liceo Scientifico Carlo Cattaneo, Turin

Level in national or international classification

100/100

Certificates

Good Clinical practice Certificate, Version 5, valid until April 7, 2023.

PERSONAL SKILLS

Mother tongue(s) Italian
 Other language(s) English

Self-assessment	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
	C1	C1	C1	C1	C1

FIRST Certificate
 Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Excellent communicator with strong interpersonal and negotiation skills to deal with persons of various cultural and educational background, gained through experiences in different social and clinical contest.

- Organisational / managerial skills** Leadership:
- Coordinator of the section of Young Neurology (SigN) of Neurological Italian Society.
 - Member of the Executive Board of Young Section of Turin Medical Academy.
 - Founding member of a “Lamelalgiorno” (association of university students to disseminate medical information to high school students) between 2012 and 2016
 - Student representative in the “Department of biological and clinical science”, in the “Department of Neuroscience” and in the “Medicine Faculty board” of Turin University between 2011 and 2015
 - Resident representative in the “Department of Neuroscience” and in the “Didactic Board” of Academic Senate at Turin University from April 2016 to June 2018.
 - Resident representative in the “Research Board” of Academic Senate at Turin University from Sep 2018 to Oct 2019.
 - Head animator since 2008

- Job-related skills**
- Ability towards analytical and creative thinking for rapid solutions.
 - Ability to clinical investigation based on anamnesis and physical examination and capability to use of the most appropriate diagnostic test to reach the appropriate diagnosis. Ability to start an adequate therapy.
 - Ability to use Doppler Ultrasound in order to investigate neck vessels and Transcranial Doppler.
 - Ability to do electromyography
 - Ability to practice lumbar puncture
 - Practical activities in histopathological laboratory
 - Optical, fluorescence and electronic microscope use

Neurophysiological experiences

- Ability to conduct experiments on laboratory animals, especially in neuroscience field (behavioural tests, balance tests, surgical lesions).
- Capability to perform and interpret independently most of electroneurography and electromyography exams. I have done hands-on experiences in electrophysiological clinics at San Giovanni Battista Hospital (Torino), at Santa Croce e Carle Hospital (Cuneo) and at Auxological Centre of Piancavallo (Verbania).
- I took part to a training course of electromyography at the V° Congress of European Academy of Neurology.
- I attended the “XXXIX practical and theoretical National Course on electromyography and clinical neurophysiology” – 18-26 October 2019 Abano Terme (Italy).
- Capability to perform an ecocolordoppler examination of neck vessels and of intra-cranial vessels. I have done experience, since my first year of residence in neurology, in many doppler clinics at San Giovanni Battista Hospital (Torino), at Santa Croce e Carle Hospital (Cuneo) and at San Luigi Gonzaga Hospital (Orbassano).
- I attended the “XV National Vascular Ultrasound Course, Diagnosis and therapy” – 5-8 April 2017 – Bertinoro (Italy)

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Basic user	Basic user	Basic user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

ECDL

Other skills

- Interests in Economic and Political fields
- Guitar player since 2000

Driving licence

Car driving licence (B)

ADDITIONAL INFORMATION

Internship and research experiences

From 2010 to 2012

From 2012 to 2014

Since 2015

From Nov '18 to Feb '19

- Internship in Anatomy Laboratory in San Luigi Gonzaga
- Internship in NICO (Neuroscience Institute of Cavaliere Ottolenghi) under the guide of Professor Ferdinando Rossi
- Member of CRESLA (Centro Regionale Esperto sulla Sclerosi Laterale Amiotrofica) directed by Professor Adriano Chiò
- Research experience in Neuromuscular Department of UCLH (University College of London Hospital)

Publications

- First author of "Stapedial reflex: a possible novel biomarker of early bulbar involvement in Amyotrophic Lateral Sclerosis patients". Audiology and Neurotology. In press.
- Last author of "COVID-19 impact on neurology training program in Italy." Neurological sciences: official journal of the Italian Neurological Society and of the Italian Society of Clinical Neurophysiology. January 2021. doi:10.1007/s10072-020-04991-5
- First author of "Telemedicine for management of patients with amyotrophic lateral sclerosis through COVID-19 tail". Neurological Sciences. October 2020. doi:10.1007/s10072-020-04783-x
- First author of "Plasma pNfH levels differentiate SBMA from ALS". Journal of Neurology, Neurosurgery and Psychiatry. 2020;91(2). doi:10.1136/jnnp-2019-320624
- Co-author of "Telemedicine for patients with amyotrophic lateral sclerosis during COVID-19 pandemic: an Italian ALS referral center experience". Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration. September 2020:1-4. doi:10.1080/21678421.2020.1820043
- Co-author of "Validation of the Italian version of self-administered ALSFRS-R scale". Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration. August 2020:1-3. doi:10.1080/21678421.2020.1813307
- Co-author of "Validation of the revised classification of cognitive and behavioural impairment in ALS". Journal of Neurology, Neurosurgery and Psychiatry. 2019;90(7). doi:10.1136/jnnp-2018-319696
- Co-author of "Early weight loss in amyotrophic lateral sclerosis: outcome relevance and clinical correlates in a population-based cohort." J Neurol Neurosurg Psychiatry. 2019;90(6):666-673. doi:10.1136/jnnp-2018-319611
- Co-author of "Use of poly(DL-lactide-ε-caprolactone) membranes and mesenchymal stem cells from the Wharton's jelly of the umbilical cord for promoting nerve regeneration in axonotmesis: in vitro and in vivo analysis"; Differentiation, 2012 Dec;84(5):355-65. doi: 10.1016/j.diff.2012.10.001. Epub 2012 Nov 7.
- Graduate thesis: "The immunosuppressive role of Alemtuzumab in multiple sclerosis therapy: immunological study lasted 2 years".

Publications as member of study groups:

- "Effect modification of the association between total cigarette smoking and ALS

risk by intensity, duration and time-since-quitting: Euro-MOTOR. *Journal of Neurology, Neurosurgery and Psychiatry*. 2020;91(1). doi:10.1136/jnnp-2019-320986

- G-CSF (filgrastim) treatment for amyotrophic lateral sclerosis: Protocol for a phase II randomised, double-blind, placebo-controlled, parallel group, multicentre clinical study (STEMALS-II trial). *BMJ Open*. 2020;10(3):34049. doi:10.1136/bmjopen-2019-034049
- Telemedicine in Parkinson's Disease: How to Ensure Patient Needs and Continuity of Care at the Time of COVID-19 Pandemic. *Telemedicine journal and e-health : the official journal of the American Telemedicine Association*. July 2020. doi:10.1089/tmj.2020.0184

Study Groups

Euro-MOTOR Consortium, STEMALS-II Study Group, Digital Technologies, Web and Social Media Study Group of the Italian Society of Neurology, Motor neuron diseases Study Group of the Italian Society of Neurology, ALS and frontotemporal dementia Scientific Panel of the European Society of Neurology

Courses, Congresses and Seminars

- "IV National Neurology Residence Meeting" – 12 – 14 June 2020 – Virtual Congress.
- "VI Congress of European Academy of Neurology" – 23-26 May – Virtual Congress.
- "8th winter seminar on dementia and neurodegenerative disorders" organised by Sindem4junior – 21-24 January 2020 – Bressanone (Italy). I was one of the moderators of poster section. Winner of a Travel Grant.
- "XXXIX practical and theoretical National Course on electromyography and clinical neurophysiology" – 18-26 October 2019 Abano Terme (Italy).
- "L Italian Neurology Congress" organised by Neurological Italian Society – 15-15 October 2019 – Bologna (Italy). I was one of the moderators of poster section.
- "V Congress of European Academy of Neurology" – 29 June – 2 July 2019 – Oslo (Norway). Winner of a Travel Grant.
- "III National Neurology Residence Meeting" – 1-2 March 2019 – Rome (Italy).
- "XLIX Italian Neurology Congress" organised by Neurological Italian Society - 27-30 October 2018 – Rome (Italy). Winner of Project for Young.
- "Young doctor and problems of National Healthcare System" organised by Turin Medical Academy – 09 October 2018 - Turin (Italy)
- "Antibiotic therapy and Sepsis" organised by Turin Medical Academy – 20 June 2018 - Turin (Italy)
- "Delirium: clinic, prevention and treatment" organised by Turin Medical Academy – 21 May 2018 – Turin (Italy)
- "LVIII Italian Neurology Neurosurgery Neuroradiology Congress" organised by SNO - 2-5 May 2018 – Riccione (Italy). Winner of Project for Young.
- "II National Neurology Residence Meeting" – 13-14 March 2018 – Rome (Italy). I was one of the conference moderators on Neuropathies.
- "V Liguria, Piemonte, Valle d'Aosta Neurology Congress" – 24-25 November –

Aosta (Italy).

- “XLVIII Italian Neurology Congress” organised by Neurological Italian Society - 14-17 October 2017 – Naples (Italy). Winner of Project for Young.
- “XV National Vascular Ultrasound Course, Diagnosis and therapy” – 5-8 April 2017 – Bertinoro (Italy)
- “I National Neurology Residence Meeting” – 24-26 March 2017 – Rome (Italy)
- “Multiple sclerosis patient management” – 10 March 2017 – Turin (Italy)
- Convention about Antibody against CNS – 17 February 2017 – Turin (Italy)
- “XLVII Italian Neurology Congress” organised by Neurological Italian Society – 22-25 October 2016 – Venice (Italy). Winner of Project for Young.
- “Turin Neurological Days” – 8-9 April 2016 – Turin (Italy)
- “NEURINOX International Symposium” – 23-25 September 2015 – Turin (Italy)
- “International Colloquium on Neurotechnology and Neurorehabilitation” – 13 May 2015

Poster and oral communication in Congresses

- “Intra-oral pressures and body myometries as tools to track weakness progression SBMA and ALS”, epresentation presented at V° Congress of European Academy of Neurology in 2019.
- “Plasma biomarkers point to muscle damage as a primary component of Kennedy’s disease”, epresentation presented at V° Congress of European Academy of Neurology in 2019.
- “Do ALS Motor Phenotypes develop stochastically?”, poster presented at XLIX Italian Neurology Congress in 2018.
- “Differential diagnosis in a patient with progressive dysarthria“, poster presented at XLIX Italian Neurology Congress in 2018.
- “Advanced directives of treatment in ALS patients: The Piedmont and Valle d’Aosta register experience”, poster presented at LVIII Italian Neurology Neurosurgery Neuroradiology Congress in 2018.
- “Case Report of a Patient affected by autonomic-sensory-motor polineuropathy and cardiac hypertrophy. A rare case of amiloydosis caused by the mutation Val30Met in TTR gene.”, oral communication exposed at XLVIII Italian Neurology Congress in 2017.
- “Stapedial Reflex in a Cohort of ALS Patients”, poster presented at XLVII Italian Neurology Congress in 2016.

Current field of researches

- Epidemiological and clinical studies concerning motor neuron diseases.

Clinical Trials involvement

- Sub-investigator in the “Phase 3, Doudle-Blind, Randomized, Placebo-Controlled, Parallel Group, Multicenter Study with Open-Label Extension to Evaluate the Efficacy and Safety of Ravulizumab in Patients with Amyotrophic Lateral Sclerosis (ALS).” EudraCT Number: 2019-004619-30.
- Sub-investigator in the Phase 3 “Safety and efficacy of tauroursodeoxycholic

acid (**TUDCA**) as add-on treatment in patients affected by amyotrophic lateral sclerosis (**ALS**). EudraCT number: 2018-002722-22.

- Sub-investigator in the multicenter observational study TRICALS,
- Sub-investigator in a clinical observational study concerning the gathering of biological material from patients affected by ALS and other neurodegenerative diseases and healthy controls (**BioSLA**).
- Sub-investigator in a clinical observational study concerning the analysis of urinary and salivary melatonin levels patients affected by ALS and other neurodegenerative diseases and healthy controls (**MelatonALS**).

Torino, 20/01/2021

Sincerely,

