

Dottoressa Elisabetta Cretella Lombardo
DDS, MS, PhD
CURRICULUM VITAE ET STUDIORUM

Education

2024 Phd in “Materials for Health Environment and Energy” – XXXVI cycle - Faculty of Mathematical, Physical and Natural Sciences, University of Rome “Tor Vergata”, Director Prof. S. Licoccia. Supervisor Prof. Paola Cozza, March 20th, 2024

From 2023 Research Fellow at the Department of clinical science and translational medicine, University of Rome “Tor Vergata”

2023 Course “TADs in aligner treatment: mechanics and practice”. Dr Chris Chang. Rome, February 11th -12th, 2023

2022 SIDO Model Display achievement

2022 Course “Digital orthodontics TADs and some small surgical interventions: The most interdisciplinary ERA of ORTHO”-Dr Bjorn Ludwig- September 23th-24th, Milan

2022 Course “Three days with dr. Ojima Kenji”. Dr. Ojima Kenji, Rome, June 24th -26th, 2022

2022 Scholarship for Research project on “Confronto tra i trattamenti ortodontici eseguiti con gli allineatori trasparenti e le metodiche tradizionali”, Department of clinical science and translational medicine. University of Rome “Tor Vergata”. Scientific Director Prof. Paola Cozza

2021 Specialization in Orthodontics cum laude, Faculty of Medicine and Surgery, University of Rome “Tor Vergata”

2021 Master Course on System of Clear Aligners COIP (Clear Ortho International Program) Dr. Ivan Malagon, Dr Diego Peydro. Madrid 19-12 Novembre 2021

2020 Scholarship for Research project on “Fattori predittivi di risposta al trattamento delle malocclusioni di Classe II”, Department of clinical science and translational medicine. University of Rome “Tor Vergata”. Scientific Director Prof. Paola Cozza

2020 Course “Excellence in orthodontics with clear aligners”. Dr. Diego Peydro Herrero e Dr. Ivan Malagon. Rome, October 2nd-3rd, 2020

2020 EUMAA Course. Dr. Francesco Garino e Dr. Tommaso Castroflorio, Turin, January 30th-31st–February 1st, 2020

2020 Expert Certification in Dental Sleep Medicine, Società Italiana Medicina del Sonno Odontoiatrica SIMSO. Rimini, February 6th 2020

2020 Invisalign training and certification, University of Rome “Tor Vergata”, Rome, January 2020

2019 Course “L’espansione mascellare scheletrica (MSE) non chirurgica”. Prof. Won Moon. Milan, September 21th, 2019

2019 San Diego Orthodontic Seminar, Dr Richard McLaughlin. San Diego, April 28th – May 2th 2019

2018 Scholarship for Research project on “Valutazione delle variazioni dimensionali delle vie aeree in pazienti adulti e bambini affetti da disturbi respiratori nel sonno dopo terapia ortodontica Department of clinical science and translational medicine. University of Rome “Tor Vergata”. Scientific Director Prof. Paola Cozza

2018 Course “Diventa anche tu un Aligner Pro”. Dr. Enzo Pasciuti. Rome, June 16th,2018

2017 Course “Le Meccaniche Ortodontiche nei Trattamenti – oggi e in futuro”. Dr. John C. Bennett, Milan, November 18th, 2017

2017 Second Level Master of Science in Orthodontics, “La tecnica straight-wire Mirabella: approccio clinico protocollato” Dr. Davide Mirabella. University of Rome “Tor Vergata”, Director Prof. Paola Cozza

2017 Enrollement at Ordine dei Medici-Chirurghi e degli Odontoiatri of Rome from January 2017 n. 6901

2016 Professional qualification at University of Rome “Tor Vergata”

2016 Course “Trattamento multidisciplinare delle agenesie dentarie”, Padova, November 25th -26th 2016

2016 Course “La rifinitura in Ortodonzia: l’arte del vedere”, Dott. Davide Mirabella, Rome, November 5th 2016

2016 Bidimensional Mini-residency and Typodont Course in cooperation with the Italian Society of Bidimensional Technique SITEBI and under the patronage of Boston University. Florence, October 13th 2016

2016 Course, “Filosofia MBT, le fasi e il futuro”. Dr. Fiorillo. Rome, October 1st 2016

2016 Degree in Dentistry and Dental Prosthetics cum Laude, Faculty of Medicine and Surgery, University of Rome “Tor Vergata”. Thesis entitled “VARIAZIONE DIMENSIONALE DELLE VIE AEREE DOPO AVANZAMENTO MANDIBOLARE”, Supervisor Prof. Paola Cozza

2016 Course “Randomized Controlled Trials (RCTs) in the context of evidence based dentistry”, Prof. Pandis, Florence, May 23th-24th 2016

2015 Course of American Heart Association, “Gestione dell’emergenza nello studio odontoiatrico”. Rome May 15th-16th, 2015

2010 Diploma obtained with 90/100 marks at “Giulio Cesare” High School of Rome

Work experience

Dal 2021-in corso Editorial Manager for the Italian Clinical Magazine, Align Technology.

2018-2021 Specialist in Orthodontics attending the aggregated functional area of Dentistry-Orthodontics at the “Tor Vergata University Hospital”, Rome

From 2017 Private practice

Dal 2016-2022 Voluntary Internship at Department of Orthodontic, “Tor Vergata University Hospital”, Rome

2014-2016 Internship at Department of Orthodontic, “Tor Vergata University Hospital”, Rome during Dental School enrollment.

Didactics activity

2023-2024 Speaker at the Master – First e Teen – Quando la crescita ha ancora la sua importanza. AA 2023/2024. UniCamillus University, Rome. Head Paola Cozza

2022-2023 Speaker at the Master - Allineatori in fase 1: guida alla gestione della terapia con allineatori nel paziente in crescita. AA 2022/2023. UniCamillus University, Rome. Head Roberta Lione

2021-2022 Speaker at the Master - Allineatori in fase 1: guida alla gestione della terapia con allineatori nel paziente in crescita. AA 2021/2022. UniCamillus University, Rome. Head Roberta Lione

2018-2020 Clinical and Teaching Tutor at Master of Science in Orthodontics “Protocolli terapeutici avanzati con allineatori”. University of Rome “Tor Vergata”. Director Prof. Paola Cozza

2017-2018 Clinical and Teaching Tutor at Master of Science in Orthodontics “L’ortodonzia in clinica: dall’ortopedia allo Straight Wire Step System”. University of Rome “Tor Vergata”. Director Prof. Paola Cozzas

2016-2019 Teaching Tutor at Clinical Course in Orthodontics, University of Tirana, Nostra Signora del Buonconsiglio, Head Paola Cozza

2016-2020 Teaching tutor during Orthodontic Course of Undergraduate Program in Dentistry. University of Rome “Tor Vergata”. Director Prof. Paola Cozza

2018 Speaker at the Course “Tecnica Ortodontica di Laboratorio”, University of Rome Tor Vergata. A.A. 2017/2018. Prof Paola Cozza

Awards

2022 EMEA Align research Award program “Cephalometric assessment of mandibular sequential distalization with Invisalign in Class III patients”. Lione R, Pavoni C, Cozza P, Gazzani F, Cretella Lombardo E.

2022 EMEA Align research Award program “Effects of IPR by mechanical oscillating strip system on biological structures: a qualitative evaluation”. Lione R, Pavoni C, Cozza P, Gazzani F, Cretella Lombardo E.

2022 Best scientific poster award “Evaluation of the upper arch morphologic changes after two different protocols of expansion in early mixed dentition: RME vs FIRST SYSTEM”. Cretella Lombardo E, Brunelli V, Lugli L, Rosignoli L. SIDO International Spring Meeting, Magazzini del Cotone-Genoa, March 18th-19th 2022

2022 Mention of honor for oral communication “Evaluation of the anchorage loss during maxillary molars distalization in Class II permanent dentition patients treated by Invisalign system”. Brunelli V, Gazzani F, Cretella Lombardo E, Paoloni V, Loberto S. 53th SIDO – 8th MOIP International Congress. Florence, October 13th-16th 2022

2019 Best scientific poster award “Evaluation on cbct scans of the volumetric changes of the airways in osa adults treated by mad”. Cretella Lombardo E, Malcangi M, Venza N, Palmacci D, Laganà G. 50th SIDO International Congress, Rome, October 10th-12th 2019

2018 Best scientific poster award, “Thin-plate spline analysis of mandibular morphological long-term changes induced by functional jaw orthopedics: the role of treatment timing”, Cretella Lombardo E., Loberto S., Pavoni C., SIDO 49th International Congress, Florence, October 11th-13th 2018

2018 Joseph E. Johnson Clinical Award Table Clinics Session “Facemask performance and soft tissue evaluation during orthopedic maxillary protraction: a FEM analysis”. Gazzani F, Cretella Lombardo E, Lione R, Paoloni V. 2018 AAO Annual Session. Washington DC, May 4th-7th 2018

2017 Best scientific poster award “Effetti del trattamento ortopedico-funzionale sulle dimensioni sagittali faringee in soggetti con Disturbi Respiratori del Sonno e malocclusione di Classe II” Cretella Lombardo E., for the “ANDI Roma Giovani” scholarship “PER ANDREA” on the topic: “UPDATE IN ODONTOIATRIA PEDIATRICA: BEST PRACTICES DALLA PREVENZIONE PRIMARIA ALL’INTERCETTAMENTO ORTODONTICO PRECOCE”. Rome, March 18th 2017

2016 Best scientific poster award “Analisi tridimensionale della morfologia palatale in soggetti respiratori orali”, Cretella Lombardo E., Ricchiuti M.R., Ballanti F., SIDO International Spring Meeting, Rome, March 11th-12th 2016

2016 Best Presentation Calibration award, SIDO International Spring Meeting, Rome, March 11th-12th 2016

2015 Best scientific poster award “Stress...rilassati che è meglio. Ma attenti alle conseguenze!” Cretella Lombardo E., Gazzani F. University of Romae “La Sapienza”, Rome, April 17th 2015

Scientific Society Affiliation

- Member of Società Italiana di Ortodonzia (S.I.D.O.)
- Member of European Orthodontic Society (E.O.S.)
- Member of World Federation of Orthodontists (W.F.O.)
- Member of American Association of Orthodontics (A.A.O.)
- Treasurer of Società Italiana Medicina del Sonno Odontoiatrica (SIMSO)

Scientific activity

2019 Research project “Concetto di un dispositivo di avanzamento mandibolare in pazienti adulti affetti da OSAS” University Nostra Signora del Buon Consiglio. Lione R, Pavoni C, Cretella Lombardo E, Gazzani F, Savio F, Grigolato L, Cantarella D.

2019 “Beyond Borders ” with project “Oxidative stress evaluation in OSA patients treated with Mandibular Advancement Devices” University of Romae Tor Vergata. Cozza P, Lione R, Pavoni C, Magda G, Passali F, Di Pierro D, Gazzani F, Cretella Lombardo E

Dal 2015 Scientific collaboration in research activity at the Department of Surgery and Translational Medicine of the University of Florence, Prof. Lorenzo Franchi

Volume contribution

Textbook: Approccio Sistemático alla Terapia con Allineatori

Cozza P, Lione R, Pavoni C, Brunelli V, **Cretella Lombardo E**, Gazzani F, Loberto S Edra Edizioni, March 2020

Chapter 17: Le apnee ostruttive del sonno nel paziente in crescita

(**Cretella Lombardo E**, Laganà G, Cozza P, Polimeni A) pagg 389-407

Textbook: Odontoiatria pediatrica II edizione.

Author: Polimeni Antonella. Ed. EDRA spa 2018

Tables Clinic

2022 “Efficiency, wear performance and, wear effects on enamel of IPR mechanical systems”. Lione R, Gazzani F, Cretella Lombardo E, Cozza P. 2021 AAO Annual Session. Miami, May 21th-24th 2022

2022 “Comparison between different composite resins used for clear aligner attachments: an in-vitro study”. Gazzani F, Cretella Lombardo E, Lione R, Alberti A, Cozza P. 2021 AAO Annual Session. Miami, May 21th-24th 2022

2018 “Facemask performance and soft tissue evaluation during orthoprdic maxillary protraction: a FEM analysis”. Gazzani F., Cretella Lombardo E., Lione R., Paoloni V. AAO Annual Session, Washington DC, May 4th-8th 2018

2018 “Maxillary deficiency and SDB in children with Marfan's Syndrome: a controlled three - dimensional (3D) shape evaluation”. Cretella Lombardo E., Gazzani F., Laganà G., Pavoni C., Paoloni V. AAO Annual Session, Washington DC, May 4th-8th 2018

2016 “An alternative approach to sleep disorder breathing in children: a modified monoblock”, Cretella Lombardo E., Gazzani F., Sannino G., Lione R. AAO Annual Session, Orlando FL, April 29th - Maggio 3th 2016

Poster

2022 “Evaluation of the upper arch morphologic changes after two different protocols of expansion in early mixed dentition: RME vs FIRST SYSTEM”. Cretella Lombardo E, Brunelli V, Lugli L, Rosignoli L. SIDO International Spring Meeting, Magazzini del Cotone-Genoa, March 18th-19th 2022

2022 “Dento-skeletal effects of aligners treatment in hyperdivergent patients with deep bite”. Lugli L., Pino G., Altiglia S., Cretella Lombardo E. 53th SIDO International Congress, “Together with...”, Fortezza da Basso – Florence, October 13th-16th 2022. Poster Session – N 198.

2021 “Management of Class II, open bite growing patient by using Invisalign Teen System: case report”. Chiavaroli A; Lugli L; Altiglia S; Bisceglia M; Cretella Lombardo E; SIDO-18° AIDOR International Congress, Florence, November 11th-13th 2021. Poster Session – N 36

2021 “L’espansione con allineatori in dentizione mista: uno studio prospettico”. Elisabetta Cretella Lombardo. 28° National Congress, “Collegio dei Docenti Universitari di Discipline Odontostomatologiche”, Rome, April 2021

2021 “Development of a prediction model for short-term success of functional treatment of Class II malocclusion”. Lugli L., Cretella Lombardo E., Pavoni C. SIDO International Spring Meeting 2021, Naples, July 15th-17th 2021- Poster Session - N 186

2019 “Evaluation on cbct scans of the volumetric changes of the airways in osa adults treated by mad”. Cretella Lombardo E, Malcangi M, Venza N, Palmacci D, Laganà G. 50th SIDO International Congress, Rome, October 10th-12th 2019

2019 “Comparison of two different screws for rapid maxillary expansion: a randomized multicentric study”. Cretella Lombardo E., Paoloni V., Gazzani F., Pavoni C., Franchi L. AAO Annual Session, Los Angeles, May 3th-7th 2019s

2019 “Trattamento di un paziente con OSA di grado moderato mediante Dispositivo di Avanzamento Mandibolare (MAD)”. Malcangi M, Cretella Lombardo E, Laganà G, Lione R, Pavoni C. 26° National Congress, “Collegio dei Docenti Universitari di Discipline Odontostomatologiche”. Rome, April 11th-13th 2019

2018 “Analisi 3D della morfologia palatale in soggetti affetti da sindrome di Marfan”. Venza N., Palmacci D., Cretella Lombardo E., Paoloni V. 25° National Congress, “Collegio dei Docenti Universitari di Discipline Odontostomatologiche”. Rome, April 12th-14th 2018

2017 “Treatment and post-treatment effects of functional therapy on the sagittal pharyngeal dimensions in class II subjects”, Cretella Lombardo E., Tepedino M., Koumoulis A., Pavoni C., 48th SIDO International Congress, Rome, October 19th-21th 2017

2017 “Early treatment of Class III dentoskeletal disharmony: comparison of two protocols”, Parente G., Vitale M., Cretella Lombardo E., Franchi L., Perillo L., EOS 2017, 93rd European Orthodontic Society Congress, Montreux, June 6th-9th 2017

2017 “Treatment of Skeletal Class II malocclusion with a mandibular propulsor device: a case report”, Venza N., Cretella Lombardo E., Laganà G., SIDO International Spring Meeting, Florence, March 17th-18th 2017

2016 “Analisi tridimensionale della morfologia palatale in soggetti respiratori orali”, Cretella Lombardo E., Ricchiuti M.R., Ballanti F., SIDO International Spring Meeting, Roma, March 11th-12th 2016

2016 “Analisi della morfologia palatale in bambini con incisivi inclusi attraverso lo studio tridimensionale di modelli digitali”, Cretella Lombardo E., Pavoni C., Laganà G., Paoloni V., XXIII National Congress, “Collegio dei Docenti Universitari di Discipline Odontostomatologiche”, Rome, April 14th-16th 2016

Oral presentations

2022 “Evaluation of the anchorage loss during maxillary molars distalization in Class II permanent dentition patients treated by Invisalign system”. Brunelli V, Gazzani F, Cretella Lombardo E, Paoloni V, Loberto S. 53th SIDO – 8th MOIP International Congress. Florence, October 13th-16th 2022.

2022-2023 Speaker at the Master in Orthodontics "Allineatori in Fase 1: guida alla gestione della terapia con allineatori nel paziente in crescita", Unicamillus University, Rome.

2019 “Sindrome della Apnee Ostruttive del Sonno: aspetti diagnostici, terapeutici e normativi”. Second Level Master, Università degli Studi di Roma "Tor Vergata" 22-23 Novembre 2019

2018 “Tecnica Ortodontica di Laboratorio”. Corso di formazione Universitario per l’odontotecnico A.A 2027/2018, Università degli Studi di Roma "Tor Vergata"

2017 “The effects of functional therapy on the sagittal pharyngeal dimensions in subjects with Sleep-disordered Breathing and a Class II malocclusion”, Cretella Lombardo E., Laganà G., Paoloni V., Cozza P., EOS 2017, 93rd European Orthodontic Society Congress, Montreux, 6-9 Giugno 2017

2017 “Sindrome dell’Apnea Ostruttiva nel Sonno (OSAS): un problema sanitario, sociale ed economico”. Inquadramento diagnostico in odontoiatria e terapia delle OSAS in età pediatrica. 4° Convegno COSIPS Roma, 26-27 maggio 2017

2017 “Russamento e OSAS del bambino: trattamento ortodontico”, III Corso di Certificazione in Dental Sleep Medicine – SIMSO, Bertinoro, 17-18 Febbraio 2017

2017 “Problemi Respiratori nel Sonno”, Corso Teorico-Pratico, Laboratorio PISANO S.r.l., Napoli, 4-5 febbraio 2017

2016 “An alternative approach to sleep disorder breathing in children: a modified monoblock”, **Cretella Lombardo E.**, Paoloni V., Pavoni C., 47esimo SIDO International Congress - “Patient-important outcomes in Orthodontics”, Firenze, 13-15 ottobre 2016

Research Articles

“Comparison between twin block appliance and mandibular advancement on clear aligners in the improvement of airway dimension: incremental versus maximum bite advancement”. **Cretella Lombardo E**, Lugli L, Cozza P, Lione R, Loberto S, Pavoni C. Front Oral Health. 2024 Sep 3;5:1463416. doi: 10.3389/froh.2024.1463416. PMID: 39291132; PMCID: PMC11405374.

“Comparison between two different expansion protocols in early mixed dentition: Clear Aligners vs Rapid Maxillary Expansion”. **Cretella Lombardo E**, Fanelli S, Paoloni V, Cozza P, Lione R. Seminars in Orthodontics. **2023** March. DOI: 10.1053/j.sodo.2023.03.005.

“Dentoskeletal effects of clear aligner vs twin block-a short-term study of functional appliances”. **Cretella Lombardo E**, Lione R, Franchi L, Gaffuri F, Maspero C, Cozza P, Pavoni C. *J Orofac Orthop.* **2023** Jan 18.

“Gingival Margins' Modifications during Orthodontic Treatment with Invisalign First®: A Preliminary Study”. Lione R, Gazzani F, Moretti S, Danesi C, **Cretella Lombardo E**, Pavoni C. *Children (Basel).* **2022** Sep 20;9(10):1423.

“Management of Class II open bite in a growing patient using the Invisalign Teen system: A case report.” Pavoni C., Lugli L, **Cretella Lombardo E**. *Journal of Aligner Orthodontics: JAO* **2022**;6(1):1–7.

“Evaluation of the Upper Arch Morphological Changes after Two Different Protocols of Expansion in Early Mixed Dentition: Rapid Maxillary Expansion and Invisalign® First System”. **Cretella Lombardo E**, Paoloni V, Fanelli S, Pavoni C, Gazzani F, Cozza P. *Life (Basel).* **2022** Aug 26;12(9):1323.

“Upper arch dimensional changes with clear aligners in the early mixed dentition : A prospective study.” Lione R, **Cretella Lombardo E**, Paoloni V, Meuli S, Pavoni C, Cozza P. *J Orofac Orthop.* **2021** Sep 3.

“Management of a mesiodens in mixed dentition with Invisalign First”. Meuli S, Cozza P, **Cretella Lombardo E**. *Journal of Aligner Orthodontics* **2021**; 5:1–7.

“Development of a Prediction Model for Short-Term Success of Functional Treatment of Class II Malocclusion”. **Cretella Lombardo E**, Franchi L, Gastaldi G, Giuntini V, Lione R, Cozza P, Pavoni C. *International journal of environmental research and public health* **2020**; 17(12):E4473.

“Thin-Plate Spline Analysis of Mandibular Morphological Long-Term Changes Induced by Functional Jaw Orthopedics: The Role of Treatment Timing”. Pavoni C, **Cretella Lombardo E**, Faltin K, Cozza P, Franchi L. *Gavin Publishers-Dentistry: Advanced Research* **2020**; 5:01.

“Evaluation of sagittal airway dimensions after face mask therapy with rapid maxillary expansion in Class III growing patients”. **Cretella Lombardo E**, Franchi L, Lione R, Chiavaroli A, Cozza P, Pavoni C. *International Journal of Pediatric Otorhinolaryngology* **2020**;130: 109794.

“Dentoskeletal effects of the bitejumping appliance and the twin-block appliance in the treatment of skeletal class II malocclusion: a retrospective controlled clinical trial”. Tepedino M, **Cretella Lombardo E**, Nota A, Tecco S, Cozza P, Pavoni C. *Oral & Implantology* **2018**; 11:4.

“Infraocclusion of deciduous molars: a retrospective analysis of prevalence, characteristics and association with other dental anomalies”. Venza N, Danesi C, **Cretella Lombardo E**, Gazzani F, Laganà G. *Oral & Implantology.* **2018**; 11:1

“Obstructive sleep apnea in children with Marfan syndrome: Relationships between three-dimensional palatal morphology and apnea-hypopnea index”. Paoloni V, **Cretella Lombardo E**, Placidi F, Ruvolo G, Cozza P, Laganà G. *Int J Pediatr Otorhinolaryngol*. **2018** Sep;112:6-9

“Orthopaedics treatment effects of functional therapy on the sagittal pharyngeal dimensions in subjects with Sleep-disordered Breathing and Class II malocclusion”. Pavoni C, **Cretella Lombardo E**, Lione R, Bollero P, Ottaviani F, Cozza P. *Acta Otorhinolaryngol Ital*. **2017** Dec;37(6):479-485

“Treatment and post-treatment effects of functional therapy on the sagittal pharyngeal dimensions in Class II subjects”. Pavoni C, **Cretella Lombardo E**, Franchi L, Lione R, Cozza P. *Int J Pediatr Otorhinolaryngol*. **2017** Oct;101:47-50

“Treatment timing for functional jaw orthopaedics followed by fixed appliances: a controlled long-term study”. Pavoni C, **Cretella Lombardo E**, Lione R, Faltin K. Jr, McNamara J.A. Jr, Cozza P, Franchi L. *Eur J Orthod*. **2018** Jul 27;40(4):430-436

“Le apnee ostruttive del sonno nel paziente adulto: un disturbo di grande interesse medico-odontoiatrico e sociale”. Pisano E, Venza N, **Cretella Lombardo E**. *Bollettino di informazione Leone*. June **2018**

“Le problematiche respiratorie nel sonno in età adulta: il ruolo dell’ortodontista”. Ranieri S, Laganà G, **Cretella Lombardo E**, Cozza P. *Dental Cadmos* 86(06). June **2018**

“Effetti del trattamento ortopedico-funzionale sulle dimensioni sagittali faringee in soggetti con disturbi respiratori del sonno e malocclusione di Classe II”. **Cretella Lombardo E**. *Odontoiatria* 33. April **2017**

“Avanzamento mandibolare programmato nei disturbi respiratori del sonno”. **Cretella Lombardo E**, Pavoni C, Cozza P. *Bollettino di informazione Leone*. March **2017**

Elisabetta Cretella Lombardo