Sarah Anvery, DDS, MS
sarahanv@buffalo.edu
(845)-920-6514

My strong interest in cell and molecular biology instilled in me the desire to approach learning dentistry and orthodontics in a rudimentary way. While doing so, I established a solid foundation for orthodontics. My deeper understanding of the subject has allowed me to challenge the current treatment methodologies. My primary goal is to improve treatment efficiency. This has led me to develop several innovative research projects. My interest of improved efficiency also led me to co-invent a new esthetic orthodontic treatment appliance. Ultimately, I am passionate about efficient orthodontics, research in orthodontics and the sharing of that knowledge.

EDUCATION:

- Bachelor of Science in Cell/Molecular Biology — 2009-2013
  with concentration in Chemistry — New Paltz, NY
  State University of New York (SUNY)

- Doctor of Dental Surgery — 2015-2019
  Howard University College of Dentistry — Washington, D.C.

- Masters of Science in Orthodontics & Specialty Certificate — 2019-2022
  University at Buffalo School of Dental Medicine — Buffalo, NY
  State University of New York (SUNY)

PUBLICATIONS:

- Zero-link polymerized hemoglobin (OxyVita®Hb) stabilizes the heme environment: potential for lowering vascular oxidative stress. — 2016
  Artif Cells Nanomed Biotechnol. 2017 Jun;45(4):701-709. Epub 2016 Dec 9.
  PMID: 27936945

- Anvery, S, Al-Zainal, M, Al-Jewair, T,. (2020). Clear Aligner Therapy May Not Prevent But May Decrease the Incidence of External Root Resorption Compared to Full Fixed Appliances — 2020
  Journal of Evidence Based Dental Practice. 20(2): 101438

- Anvery, Sarah, and Pramod Philip. "Invisalign treatment achieved and predicted results." *American Journal of Orthodontics and Dentofacial Orthopedics* 161.6 (2022): 760. — 2022

- Anvery, Sarah, and Pramod Philip. "Re: A comparison of treatment results of adult deep-bite cases treated with lingual and labial fixed appliances. Hande Pamukcu, Omur Polat Ozsoy, Angle Orthod. 2021; 91: 590-596." — 2022
  Angle Orthodontist 92.4 (2022): 573-573.

PRESENTATIONS:

- NIH/NIDCR 2016
- The Hinman Student Research Symposium 2017
- AADR/CADR/IADR Annual Meeting & Exhibition 2018
- Student Competition for Advancing Dental Research 2018

SCHOLARSHIPS/HONORS:

- Trustees Scholarship - Howard University College of Dentistry 2016-2019
- Summer Dental Student Award- NIH/NIDCR 2016
- Student Competition for Advancing Dental Research 2018

RESEARCH GRANTS:

- 2021 Align Research Award- $25,000. June 2021

PROFESSIONAL EXPERIENCE:

• Orthodontist – Concerned Dental Care 2022-Present
-Yonkers, Bronx, Manhattan

RESEARCH EXPERIENCE:

• Researcher - SUNY at New Paltz 2011-2013
-Area of Research: **Physical Chemistry**
Solubility Constant (Ksp) by Molality of Salts.

• Researcher - SUNY at New Paltz 2011-2013
-Area of Research: **Biochemistry**
Develop and test the oxidation/redox capacity of
Artificial Oxygen Carrier by OXYVITA Inc.

• Research Intern – NIH/NIDCR 2016
-Area of Research: **Developmental Glycobiology**
Role of Mucin-type O-glycosylation on Packaging
and Secreting Proteins

• Principal Investigator – University at Buffalo School of Dental Medicine 2019-2022
-Area of Research: **Orthodontics, Obstructive Sleep Apnea, Immunology**
Evaluating the relationship between obstructive sleep apnea and orthodontically induced root resorption, with IL-6 as a common factor. Preparing manuscript for submission.

• Principal Investigator – University at Buffalo School of Dental Medicine 2019-Present
-Area of Research: **Accelerated Tooth Movement, Stem Cells, Animal Study**

Animal study for which a $25,000 grant was obtained from Align Tech. Split mouth study comparing mesenchymal stem cells to saline solution, and measuring the amount of tooth movement and stability post-treatment.

• Principal Investigator – University at Buffalo School of Dental Medicine 2022-2022
-Area of Research: **Obstructive Sleep Apnea, Mandibular Movement Sensors**
Systematic review, evaluating the accuracy and validity of mandibular movement sensors in the diagnosis of obstructive sleep apnea. Submitting to journal.

• Principal Investigator – University at Buffalo School of Dental Medicine 2021-Present
-Area of Research: **Orthodontics**
Observational study evaluating the growth and development of jaws with intermaxillary elastics and functional appliances in class II patients.

• Principal Investigator – University at Buffalo School of Dental Medicine 2021-Present
-Area of Research: **Orthodontics, Orthognathic Surgery**
Observational study evaluating the soft tissue symmetry, pre-surgery, and post-surgery in patients requiring orthognathic surgery to correct their skeletal asymmetry.

• Principal Investigator – University at Buffalo School of Dental Medicine 2021-Present
-Area of Research: **Orthodontics, Oral Biology**
A research protocol has been written for IRB review. This study will assess the oral environment, and IL-6 levels of most commonly encountered skeletal malocclusions.

• Co-Investigator – University at Buffalo School of Dental Medicine 2021-Present
-Area of Research: **Orthodontics, Radiology**
A research protocol has been written for IRB review. This study will assess the effects of various skeletal, dental and soft tissue parameters on the lower lip posture and mento-labial sulcus.

INNOVATIONS:

- Hybrid retainer 2020
- Temporary Anchorage Device guide and critical anchorage appliance 2020
- Stainless steel ligature pencil instrument with modifications 2020
- A new magnet based esthetic orthodontic appliance 2021

PROFESSIONAL MEMBERSHIPS:

- Member, International Association for Dental Research 2018-Present
- Member, American Association for Dental Research 2018-Present
- Member, American Association for Dental Research 2018-Present
  Orthodontic Research Group
- Member, American Association of Orthodontists 2019-Present
- Member, Northeastern Society of Orthodontics 2019-Present

CONTINUING EDUCATION:

- AAO Annual Conference 2022- Miami
- John J. Cunat Event: Root Resorption 2022; Sameshima GT - Buffalo NY
- AAO Annual Conference 2021- Virtual
- Craniofacial Seminars 2019-2022- OSHEI Children's Hospital, Buffalo NY
- 3Shape Software Training 2021- Great Lakes Dental Technologies Inc.
- Management of the BRIUS Appliance 2021- Virtual
- John J. Cunat Event: Let's Go Digital 2021- Virtual
- Temporary Anchorage Device lecture and hands-on training, Nicole Scheffler 2021- Buffalo NY
- LightForce CE Webinar 2020- Virtual
- CBCT Will Return Orthodontists Back to the Specialty Arena 2020-Virtual
- AAO Annual Conference 2020- Virtual
- John J. Cunat Event: Orthodontic Practice 2020 - Virtual
- Align University Ortho Webinars 2020- Virtual
- Occlusal Appliance Course (Howard University College of Dentistry) 2018
- The intraoral and extraoral exam (Procter and Gamble Company) 2017