

*Curriculum vitae*  
**Christina L. Nicholas**

Department of Orthodontics  
College of Dentistry  
801 S. Paulina St., MC 841  
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## **EDUCATION**

- 2015            Ph.D., Anthropology, University of Iowa  
                  Dissertation: The ontogeny of nasal floor shape variation in *Homo* and the influence of facial size, the anterior dentition, and patterns of midfacial integration (Chair: Robert Franciscus)
- 2009            M.A., Anthropology, University of Iowa
- 2006            B.S. (with honors), Anthropology, Michigan State University

## **RESEARCH AND PROFESSIONAL APPOINTMENTS**

- 2023-present    Associate Professor, Department of Orthodontics, University of Illinois Chicago
- 2020-present    Director of Graduate Studies, Masters in Oral Sciences Program, University of Illinois Chicago
- 2019-2023       Assistant Professor, Department of Orthodontics, University of Illinois Chicago
- 2019-present    Associate Director of Graduate Research, Department of Orthodontics, University of Illinois Chicago
- 2019-present    Research Associate, Integrated Research Center – Social Sciences Section, Field Museum, Chicago, IL
- 2018-present    Department Affiliate, Department of Anthropology, University of Illinois Chicago
- 2016-2019       Visiting Research Assistant Professor, Department of Orthodontics, University of Illinois Chicago
- 2015-2016       Postdoctoral Research Fellow, Iowa Institute for Oral Health Research, University of Iowa (supported by NIH T90 DE023520-02)
- 2012-2014       Research Assistant, Iowa Institute for Oral Health Research, University of Iowa
- 2012             Adjunct Instructor, Department of Math and Science, Kirkwood Community College
- 2007-2012       Teaching Assistant, Department of Anthropology and Department of Rhetoric, University of Iowa

## **PUBLICATIONS**

Refereed Published Articles

- Accepted* Alhazmi, DM, Nicholas, CL, Vora, SR, Allareddy, V, Rengasamy, SV.# Morphological Integration in Inferior Alveolar Canal and Mandibular Shapes. *Orthodontics and Craniofacial Research*.
- In press* Strumpf, M,\* Marion, I, AlQahtani, S, da Fonseca, MA, **Nicholas, CL**#. Comparing the relative influence of obesity and ancestry on timing of dental development. *Orthodontic and Craniofacial Research*.
- 2023 Farhi, M,\* Tomas, N,\* Marion, I, Avenetti, D, Atsawasuwana, P, da Fonseca, M, Al Atabbe, M, **Nicholas, CL**#. Evaluation of the (hu)MANid program for sex and ancestry estimation in a diverse, contemporary CT scan-based sample. *Journal of Forensic Sciences*. 68(1), 242-251. <https://doi.org/10.1111/1556-4029.15176>
- 2022 Nguyen, A,\* Caplin, J, Avenetti, D, Durfee, S, Kusnoto, B, Sciote, JJ, **Nicholas, CL**#. A longitudinal assessment of sex difference in the growth of the mandibular retromolar space. *Archives of Oral Biology*. 143, 105547. <https://doi.org/10.1016/j.archoralbio.2022.105547>
- 2022 Cardona Salazar, DK,\* Caplin, J, Whyms, P,\* Alranyes, S, Nikita, E, Galang-Boquiren, MT, Truskoski,\* D, Naqvi, A, **Nicholas, CL**#. Nutrition, obesity, and dental development in young adolescents in Chicago. *American Journal of Human Biology*. e23721. <https://doi.org/10.1002/ajhb.23721>
- 2021 Butaric, LN, **Nicholas, CL**, Plotzke, K, Maddux, SD. Ontogenetic variation in human nasal morphology. *The Anatomical Record*. 1:28. <https://doi.org/10.1002/ar.24760>
- 2021 Chen, Z,\* Atsawasuwana, P, **Nicholas, CL**, Thalji, G, Viana, G. Evaluation of Composite Attachment Position with Four Indirect Bonding Tray Sectioning Strategies. *Journal of Clinical Orthodontics*. 55(5) 294-304.
- 2021 Gordon, LA,\* Miller, SF, Caplin, J, Galang-Boquiren, MT, Alranyes, S, **Nicholas, CL**#. Childhood Obesity May Accelerate Timing of Human Facial Growth. *Archives of Oral Biology*. 1;121:104964. <https://doi.org/10.1016/j.archoralbio.2020.104964>
- 2021 Barque, A,\* Jan, K, De La Fuente, E,\* **Nicholas, CL**, Hynes, RO, Naba, A. Knockout of the gene encoding the extracellular matrix protein SNED1 results in early neonatal lethality and craniofacial malformations. *Developmental Dynamics*. 250(2):274-94. <https://doi.org/10.1002/dvdy.258>
- 2020 Haley, CM, Brown, B, Koerber, A, **Nicholas, CL**, Belcher, A. Comparing Case-Based with Team-Based Learning: Dental Students' Satisfaction, Level of Learning, and Resources Needed. *Journal of Dental Education*. 84(4): 486-494. <https://doi.org/10.21815/JDE.019.190>
- 2020 Avila-Ortiz, G, Gubler, M, Romero-Bustillos, M, **Nicholas, CL**, Zimmerman, MB, Barwacz, CA. Efficacy of Alveolar Ridge Preservation: A Randomized Controlled Trial. *Journal of Dental Research*. 99: 402-409. <https://doi.org/10.1177/0022034520905660>
- 2018 **Nicholas, CL**, Kedavy, K,\* Holton, NE, Marshall, T, Richter, A,\* Southard, T. Childhood body mass index is associated with early dental development and eruption in a longitudinal sample from the Iowa Growth Study. *American Journal of Orthodontics and Dentofacial Orthopedics*. 154: 78-87.

- 2018 **Nicholas, CL**, Thalji, G, Richter, A.\* Childhood obesity and accelerated timing of dental maturation: A critical review. *Forensic Anthropology*. 1: 170-179.
- 2017 Marchi, D, Proctor, D, Huston, E, **Nicholas, CL**, Fischer F. 2017. Morphological correlates of the first metacarpal proximal articular surface with manipulative capabilities in apes, humans, and South African early hominins. *Comptes Rendus Palevol*. 16: 645-654
- 2016 **Nicholas, CL**. Fetal and neo-natal maxillary ontogeny in extant humans and the utility of prenatal maxillary morphology in predicting ancestral affiliation. *American Journal of Physical Anthropology*. 161: 448-455.
- 2015 Holton, NE, **Nicholas, CL**, Marshall, SD, Franciscus, RG, Southard, TE. The effects of altered maxillary growth on patterns of mandibular rotation in a pig model. *Archives of Oral Biology*. 60: 933-940.
- 2014 **Nicholas, CL**, Franciscus, RG. The Ontogeny of Nasal Floor Shape Variation in Extant Humans. *American Journal of Physical Anthropology*. 115: 369-378.

\*denotes student author #denotes senior and corresponding author

#### Books, Book Chapters, and Other Publications

- 2017 Avila-Ortiz G, Gubler M, **Nicholas C** & Barwacz C. Chapter 4.7. Alveolar Ridge Preservation in ‘Clinical Cases in Implant Dentistry’ Eds. N. Karimbux & H.P. Weber. Wiley & Sons.

\*denotes student author #denotes senior and corresponding author

#### Refereed Published Abstracts

1. **Nicholas, CL**, Hedger, J, Caplin, J, Galang-Boquiren, MT, Alrayyes, S, Ratz, C. Examining longitudinal patterns of facial size and shape in children with obesity. [Accepted for presentation at the 2023 annual meetings of the American Association of Biological Anthropologists]
2. Whyms, P, Kramer, I, Truskoski, D, Silver, C, Valverde Estepa, A, Naqvi, A, Alrayyes, S, Thalji, G, Williams, S, Campos Riversa, M, Pinto, N, **Nicholas, CL**. 2023. Food insecurity, diet, and oral health in Chicago children. *J Dent Res*. 102A: 1215.
3. Whyms, P, Naqvi, A, Valverde Estepa, AM, Brambila, MF, Martinez, G, Chapa, G, Nares, S, **Nicholas, CL**, Divaris, K, Campos Rivera, M, Buxo, C. 2022. High-throughput gingival metagenome analysis reveals enrichment of inflammatory pathways in periodontally disease subjects. *J Dent Res* 101A: 0813
4. Farhi, M, Marion, I, Atsawasuan, P, **Nicholas, CL**. 2022. Validating the forensic dentistry (hu)MANid program in contemporary adults. *J Dent Res* 101A: 0186
5. Whyms, PS, Naqvi, A, Truskoski, T, Valverde Estepa, A, Alrayyes, S, Williams, S, Silver, C, Awadalla, S, **Nicholas, CL**. 2022. The effect of food insecurity on oral health. *Am J Biol Anthropol*. 177: 197.

6. Whyms, P, Naqvi, A, Truskoski, D, Valverde Estepa, A, Alrayyes, S, Williams, S, Silver, C, Awadalla, S, **Nicholas, CL**. 2021. Childhood obesity's influence on the oral microbiome and oral health. *Am J Phys Anthropol*. 174S: 112-113.
7. Whyms, P, Truskoski, D, Silver, C, Valverde Estepa, A, Naqvi, A, Alrayyes, S, Thalji, G, Williams, S, Divaris, K, Campos Rivera, M, **Nicholas, CL**. 2021. Associations Between Childhood Obesity, Diet, and Oral Health. *J Dent Res* 100A: 0680.
8. Xu, Y, Silver, C, Truskoski, D, Naqvi, A, Whyms, P, Wu, C, Alrayyes, S, Thalji, G, **Nicholas, CL**. 2021. Exploring Correlations Between Childhood Obesity and Caries. *J Dent Res* 100A: 1903.
9. Silver, CM, Naqvi, A, Valverde Estepa, AM, Alrayyes, S, Wu, CDR, **Nicholas, CL**. 2021. High BMI Children Show Increased Levels of Oral Inflammation. American Association of Pediatric Dentistry.
10. Whyms, P, Naqvi, A, Williams, S, Alrayyes, S, Truskoski, D, **Nicholas, CL**. 2020. An Examination of Food Insecurity, Obesity, and Pediatric Oral Health. *J Dent Res* 99A: 3124.
11. Truskoski, D, Alrayyes, S, Thalji, G, Naqvi, A, Wu, C, **Nicholas, CL**. 2020. The Influence of Oral Inflammation on Timing of Dental Eruption. American Association of Pediatric Dentistry.
12. Empson, I, Strumpf, M, AlQahtani, S, Marion, I, daFonseca, M, **Nicholas, CL**. 2019. Comparing the Demirjian and London Dental Atlas Methods. *J Dent Res* 98A: 2472 ([www.iadr.org](http://www.iadr.org))
13. Strumpf, M, daFonseca, M, Marion, I, AlQahtani, S, **Nicholas, CL**. 2019. Forensic Age Estimation in a Chicago Pediatric Population. American Association of Pediatric Dentistry.
14. Butaric, LN, Maddux, SD, **Nicholas, CL**, Evteev, A. 2019. Ontogenetic processes in the nasal cavity among Alaskan Inuits: Implications for respiratory adaptations in cold-dry environments. *Am J Phys Anthropol*. 168S: 36.
15. Richter, A, Holton, NE, Southard, T, Marshall, T, **Nicholas, CL**. 2018. The influence of childhood BMI on facial growth. *J Dent Res* 97A: 1091 ([www.iadr.org](http://www.iadr.org)).
16. Salameh, B, **Nicholas, CL**, Miller, SF, Yamaguchi, T. 2018. EDAR gene variations and mandibular morphology in a Japanese sample. *J Dent Res* 97A: 1253 ([www.iadr.org](http://www.iadr.org)).
17. **Nicholas, CL**, Holton, NE, Doolittle, B, Southard, T. 2017. An investigation of the relationship between maxillary sinus volume and midfacial growth using a pig model. *Am J Phys Anthropol*. 162S: 299.
18. **Nicholas, CL**, Kedavy, K, Holton, NE, Marshall, T, Southard, T. 2017. Childhood obesity and early tooth eruption in a longitudinal sample. *J Dent Res* 96A: 3125 ([www.iadr.org](http://www.iadr.org)).
19. Richter, A, Holton, NE, Southard, T, **Nicholas, CL**. 2017. Absolute tooth length and predicting the timing of dental eruption. *J Dent Res* 96A: 1874 ([www.iadr.org](http://www.iadr.org)).
20. Knight, D, **Nicholas, CL**, Holton, NE, Yokley, T, Southard, T. 2016. An examination of integration across the units of the nasal septum. *J Dent Res*. 95A: 1813 ([www.iadr.org](http://www.iadr.org)).
21. **Nicholas, CL**, Franciscus, RG, Policeni, B. 2015. Human nasal floor shape variation and its relationship to the anterior dentition. American Association of Physical Anthropologists. *Am J Phys Anthropol*. 156S: 235.

22. **Nicholas, CL**, Franciscus, RG, Policeni, B. 2015. Human nasal floor shape variation and its relationship to the anterior dentition. American Association of Physical Anthropologists. *Am J Phys Anthropol.* 156S: 235.
23. **Nicholas, CL**, Franciscus, RG. 2014. Quantifying Morphological Variation in the Nasal Floor of Extant and Fossil *Homo*. *Paleoanthropol.* 2014: A22.
24. **Nicholas, CL**, Bates, A, Hughes, LT, Barwacz, C, Gratton, DG, Stanford, CM. 2014. Geometric Morphometric Assessment of Stability of Three Implant Abutment Designs. *J Dent Res.* 93A: 141 ([www.iadr.org](http://www.iadr.org)).
25. Foster, AP, Holton, N, **Nicholas, CL**, Southard, T. 2014. Ontogenetic Patterns of Lower Facial Integration. *J Dent Res.* 93A: 671 ([www.iadr.org](http://www.iadr.org)).
26. **Nicholas, CL**, Bates, A, Hughes, LT, Barwacz, C, Gratton, DG, Stanford, CM. 2014. A 3D Geometric Morphometric Approach to Measuring Implant Success. *Int J Oral Max Impl.* 29: 517.
27. **Nicholas, CL**. 2013. A preliminary three-dimensional geometric morphometric analysis of fetal and neo-natal maxillary ontogeny in extant *H. sapiens* using cross-sectional data. *Am J Phys Anthropol.* 150S:206.
28. **Nicholas, CL**, Franciscus, RG. 2010. The ontogeny of variation in internal nasal floor configuration in extant *H. sapiens*. *Am J Phys Anthropol.* 141S:177.
29. Franciscus, RG, **Nicholas, CL**. 2010. Variation in anterior nasal spine prominence in extant human adults and subadults. *Am J Phys Anthropol.* 141S:177.
30. **Nicholas, CL**, Franciscus, RG. 2009. Internal nasal floor configuration in contemporary fetal and postnatal subadult *H. sapiens*. *Am J Phys Anthropol.* 139S:199.

## GRANTS AND FELLOWSHIPS

### External

- |           |  |
|-----------|--|
| 2023-2025 | National Institute of Justice FY22 Research and Development in Forensic Sciences for Criminal Justice Purposes, “DENTAGE: A multi-component subadult dental age estimation method”. PI: <b>CL Nicholas</b> , Co-I’s: James Sciote, Efthymia Nikita, Collaborators: Michael Colvard, Jeffrey Godel. (\$567,920) |
| 2023      | American Association of Orthodontists Foundation Research Aid Award, PI: Suzanne Abreu (student), Co-I: <b>CL Nicholas</b> (mentor). “The Influence of Population Variation and Obesity on Facial Growth” (\$4,800)  |
| 2021      | Hispanic Alliance for Clinical and Translational Research (HACTR) Research Training Opportunity Program (RTOP), PI: Catherin Chacin, co-I: <b>CL Nicholas</b> (mentor) “Salivary Inflammation Profile of Hispanic Infants” (\$5000)  |
| 2021      | American Association of Orthodontists Foundation Research Aid Award, PI: Pheba Abraham (student), Co-I: <b>CL Nicholas</b> (mentor), V Allareddy. “A longitudinal investigation of COVID-19’s impact on economic security, food insecurity, and access to dental and orthodontic care” (\$5,000)               |
| 2018      | American Association of Orthodontists Foundation Biomedical Research Award, PI: <b>CL Nicholas</b> , Co-Is: Ghadeer Thalji, Sahar Alrayyes, Giamila Fantuzzi.  |

- “Childhood obesity, oral inflammation, and timing of dental development”  
(\$29,350)
- 2013 National Science Foundation Doctoral Dissertation Research Improvement Grant (BCS-1340862) for **CL Nicholas**, Co-PI: “Doctoral Dissertation Improvement: Testing the Relationship Between Nasal Traits and the Anterior Dentition in Homo” (1 year) PI: RG Franciscus (\$7,649)
- 2013 William S. Pollitzer Student Travel Award, American Association of Physical Anthropologists (\$500) (Second Award)
- 2010 William S. Pollitzer Student Travel Award, American Association of Physical Anthropologists (\$500)

#### Internal (Post-PhD)

- 2019 Center for Clinical and Translational Science Pilot Grant (Funded through NIH CTSA award UL1TR002003 to UIC) PI: **CL Nicholas**, Co-Is: Sahar Alrarrayes, Giamila Fantuzzi, Afsar Naqvi, Ghadeer Thalji, Sloan Williams, Pamela Whymys, “The effects of Food Insecurity on the Oral Microbiomes of Children in Chicago” (\$60,000)

#### Internal (Pre-PhD)

- 2014 Ballard Seashore Dissertation Year Fellowship, University of Iowa (\$20,000)
- 2013 GSS Travel Funds Award, Graduate Student Senate, University of Iowa (\$400)
- 2013 June Helm Graduate Fellowship, Department of Anthropology, University of Iowa (\$1,500)
- 2013 PAGS Travel Grant, Executive Counsel for Graduate and Professional Students, University of Iowa (\$117)
- 2012 T. Anne Cleary International Dissertation Research Fellowship, University of Iowa Graduate College (\$5,000)
- 2012 Instructional Improvement Grant, University of Iowa, PI: RG Franciscus; Co-PIs: **CL Nicholas**, JE Scott (\$4,078)
- 2012 Graduate Student Travel Field Research Grant, Center for Global and Regional Environmental Research, University of Iowa (\$2,000)
- 2012 Graduate Dissertation Grant, Center for Asian and Pacific Studies, University of Iowa (\$300)
- 2012 Graduate Student Senate Supplemental Travel Award for Research, University of Iowa (\$500)
- 2009 Stanley Graduate Award for International Research, Stanley-UI Foundation Support Organization, University of Iowa (\$2,000)
- 2009 Summer Research Funding, Department of Anthropology, University of Iowa (\$800)
- 2008 Summer Research Funding, Department of Anthropology, University of Iowa (\$700)

#### AWARDS

- 2021 UIC Teaching Recognition Program Award, University of Illinois Chicago  
 2016 1<sup>st</sup> Place Dentsply Implants Oral Presentation Competition, the Iowa Section of the American Association for Dental Research  
 2014 June Helm Award, Graduate Student Anthropology Association, University of Iowa

## INVITED TALKS

- 2023 “More than Just Teeth: Taking a Bioanthropological Approach to Oral Health”, PNWU Speaker Series, Pacific Northwest University, Yakima WA. 3/20.  
 2023 “More than Just Teeth: Taking a Bioanthropological Approach to Oral Health”, Weekday Afternoon Anthropology Talks, Department of Anthropology, UIC. 2/6.  
 2022 “Childhood Obesity and Dentofacial Growth: A cross-disciplinary perspective on systemic-oral health links”, University of Washington College of Dentistry Interdisciplinary Seminar (Zoom). 11/30.  
 2022 “Childhood Obesity and Timing of Dentofacial Growth” Consortium for Orthodontic Advances in Science and Technology (COAST), Lake Arrowhead, CA. 11/7  
 2022 “Childhood Obesity and Oral Health: Considerations for Dental Healthcare Professionals” Greater Portland Dental Society, Portland ME. 9/22  
 2022 “Childhood Obesity and Craniofacial Growth: A Dental Anthropology Perspective” Medical Sciences Campus, University of Puerto Rico. 4/5  
 2020 “A Bio-Anthropological Perspective on Childhood Obesity and Oral Health” Sociology and Anthropology Research Series, Department of Sociology and Anthropology, Illinois State University. 3/6  
 2019 “Dental + Anthropology: an Integrated Approach to Studying Craniofacial Growth”. Department of Anthropology, University of Arkansas. 3/6  
 2019 “Childhood obesity, oral inflammation, and dental eruption: Using molecular biomarkers to inform orthodontics”. 44<sup>th</sup> Annual International Conference on Craniofacial Research (“Moyers Pre-Symposium”). 3/1.  
 2018 “An evolutionary perspective on patterns of human facial growth and development”. Department of Anthropology, UIC. 4/16.  
 2017 “An evolutionary perspective on patterns of human facial growth and development”. Midwestern University. 10/20.  
 2013 “An Examination of Naso-Dental Covariation in a Sample of Subadult Clinical CT Scans” Centro de Investigação em Antropologia e Saúde, University of Coimbra. 5/28.  
 2012 “Populations, diet, and tooth development: an anthropological perspective on dental ontogeny.” Dows Institute for Dental Research, University of Iowa. 4/11.

## OTHER CONFERENCE PRESENTATIONS

- 2020 Barque, A, Davis, MN, Jan, K, De La Fuente, E, **Nicholas, CL**, Naba, A. The novel ECM protein SNED1 regulates neural crest cells for proper craniofacial development. Society for Developmental Biology. [Virtual session]

- 2020 Xu, Y, Samawi, JT, Truskoski, D, **Nicholas, CL**. Exploring Correlations Between Obesity and Oral Health. Clinic and Research Day, UIC. [Winner: SCADA Best Dental Student in Clinical/Clinical Translational/Behavioral Health at COD Clinic and Research Day; Clinical/Clinical Translational Science: Best Dental Student, UIC Clinic and Research Day 2020]
- 2020 Cardona Salazar, DC, Caplin, J, Galang-Bouqiren, MT, Alrayyes, S, Nicholas, CL. Examining the Link Between Dental Development, BMI, and Diet. E-poster at the 2020 annual meeting of the American Association of Orthodontists.
- 2019 Barque, A, Davis, MN, Jan, K, **Nicholas, CL**, Hynes, RO, Naba, A. Sned1 knockout causes neonatal lethality and craniofacial and skeletal defects. Orthopedic Research Society Great Lakes/Midwest Regional Symposium, Chicago, IL.
- 2019 Bakhsh, N, Moreno-Uribe, L, Patankar, S, **Nicholas, CL**. 3D Analysis of Variation in Alveolar Cleft Defect Shape and Size. E-poster at the 2019 annual meeting of the American Association of Orthodontists.
- 2019 Jun, Y, Moreno-Uribe, L, Bannasch, DL, Nicholas, CL. Investigating a Potential Canid Large Animal Model for Cleft. E-poster at the 2019 annual meeting of the American Association of Orthodontists.
- 2019 **Nicholas, CL**, Thalji, G, Alrayyes, S, Fantuzzi, G, Truskoski, D, Ortiz, C. Obesity, oral inflammation, and dental development. E-poster at the 2019 annual meeting of the American Association of Orthodontists
- 2019 Gordon, LA, Caplin, J, Miller, S, Nicholas, CL. The Relationship Between Obesity and Mandible Size in Children and Adolescents. Clinic and Research Day, UIC.
- 2018 Salameh, B, **Nicholas, CL**, Miller, S, Yamaguchi, T. EDAR and GHR gene variants and mandibular morphology in a Japanese sample. Hinman Student Research Symposium, Memphis, TN.
- 2018 Salameh, B, Miller, S, Yamaguchi, T, **Nicholas, CL**. EDAR gene variants and mandibular morphology in a Japanese sample. Clinic and Research Day, UIC, 3/8. [Winner: 1<sup>st</sup> place Basic Science – Pre-doctoral Students]
- 2018 Bukhar, A, Masoud, A, Viana, G, **Nicholas, C**, Obrez, A, Kusnoto, B, Caplin, J. The effect of head position on crown/root ratio measurements of teeth of dried skulls assessed from panoramic radiographs. Clinic and Research Day, UIC, 3/8.
- 2018 Jan, K, Naba, A, **Nicholas, CL**. Quantifying craniofacial dysmorphologies observed in SNED1 knockout mice. Clinic and Research Day, UIC, 3/8.
- 2018 Strumpf, M, da Fonseca, M, AlQahtani, S, Marion, I, **Nicholas, C**. Forensic Age Estimation: A Literature Review Comparing Environmental and Ancestral Factors. Clinic and Research Day, UIC, 3/8. [Winner: Best Literature Review (Resident), UIC Clinic and Research Day 2019]
- 2018 Shafiuddin, S, **Nicholas, C**, Iriarte-Diaz, J. The relationship between the 3D angle of the root of the anterior teeth and the occlusal plane. Clinic and Research Day, UIC, 3/8.
- 2016 **Nicholas, CL**, Gubler, M, Barwacz, C, Allareddy, V, Avila-Ortiz, G. Post-extraction alveolar ridge bone and mucosa volumetric changes show non-correspondence. American Association for Dental Research, Iowa Chapter, 2/16. [Winner: 1<sup>st</sup> Place Denstply Implants Competition]



- 2015 **Nicholas, CL**, Butaric, LN, Evteev, A. A 3D Geometric Morphometric Analysis of Internal Nasal Fossa Shape Variation in Hot/Cold Climate Populations of Extant Humans. European Society for the Study of Human Evolution, London, UK, 9/10.
- 2015 **Nicholas, CL**, Franciscus, RG. Patterns of midfacial integration in extant humans. British Association for Biological Anthropology and Osteoarchaeology, Sheffield, UK, 9/20.
- 2013 **Nicholas, CL**, Miller, SF. An analysis of the utility of maxillary shape in determining the ancestral affiliation of fetal and neonatal individuals using a 3D geometric morphometric approach. I Biological Anthropology Meeting, Coimbra, Portugal, 6/1.
- 2013 **Nicholas, CL**, Hughes, LT, Gratton, DG, Stanford, CM. An Examination of Patterns of Morphological Change to the Alveolar Region Before and After Dental Implant Placement. American Association for Dental Research, Iowa Chapter, 2/19.

## TEACHING EXPERIENCE

Course	Role	Time Commitment	Semesters Taught
<b>UIC College of Dentistry</b>			
Dental and Medical Anthropology within Human Evolution (OSCI 534)	Course Director and Instructor	1-3 SH (semester hours)	Summer: 2020, 2021, 2022
Craniofacial Anomalies I (ORTD 524)	Course Director and Instructor	2 SH	Fall: 2019, 2020, 2021, 2022
Craniofacial Anomalies II (ORTD 524)	Course Director and Instructor	2 SH	Spring: 2020, 2021, 2022, 2023
“ “	Lecturer	1 hour	Spring: 2017, 2018, 2019
Craniofacial Growth and Development (ORTD 513)	Course Director and Primary Instructor	4 SH	Spring: 2018, 2019, 2020, 2021, 2022, 2023
“ “	Co-Lead Instructor	“ “	Spring: 2017
Developmental, Structural and Functional Craniofacial Biology (OSCI 562)	Course Director and Instructor	4 SH	Spring: 2020, 2021, 2022, 2023
“ “	Co-course Director and Instructor	“ “	Spring: 2019
Small Group	Facilitator	2 units per semester	Fall: 2016, 2017,

Learning			2018, 2019 Spring: 2017, 2018
ORTD 615	Lecturer	7.5 hours	Summer: 2020, 2021, 2022, 2023
Pediatric Dentistry Grand Rounds (Lecturer)	Lecturer	1 hr	Summer: 2021
2 <sup>nd</sup> Year Dental Students Basic Science (DAOB)	Lecturer	2 hr	Spring: 2021, 2022, 2023
Biostatistics Applied to Craniofacial Research	Lecturer	2 hr	Fall: 2018, 2019, 2020, 2021, 2022
1 <sup>st</sup> Year Dental Students Basic Science (DBCS)	Lecturer	3-6 hr	Fall: 2017, 2018, 2019, 2020
1 <sup>st</sup> Year Dental Students Basic Science (DAOB)	Lecturer	1.5-4 hr	Fall: 2018, 2019, 2020, 2021, 2022
Orthodontics Seminar in Department of Pediatric Dentistry	Lecturer	1-2 hr	Fall: 2017, 2018, 2019, 2020, 2021
<b>UIC Department of Anthropology</b>			
Forensic Anthropology (ANTH 239)	Instructor of Record	3 SH	Spring: 2019
Fossil Humans (ANTH 231)	Instructor of Record	4 SH	Spring: 2018
<b>University of Iowa, Department of Anthropology</b>			
Human Origins	Instructor of Record	3 SH	Summer: 2012
Forensic Anthropology and CSI	Instructor of Record	3 SH	Fall: 2011 Spring: 2012
Human Origins	Teaching Assistant	4 1-SH discussion sections	Fall: 2007, 2008 Spring: 2008, 2009
<b>University of Iowa, Department of Rhetoric</b>			
Rhetoric	Instructor of Record		Fall: 2009, 2010 Spring: 2011
Rhetoric II	Instructor of Record		Spring: 2010
<b>Kirkwood Community College, Department of Math and Science</b>			
Human Biology	Instructor of Record		Spring: 2012

### Pedagogical Professional Development

2019-2020 Scholars for Teaching Excellence Fellowship, UIC Department of Medical Education (participant)

## Mentoring (Research Projects Supervised)

Grad Year	Student	Project	Role	Awards/Honors
<b>Doctor of Philosophy, Anthropology</b>				
Current	Pamela Whyms	“Obesity, Diet, and the Oral Microbiome in Children with Obesity”	Committee Member	
2021	Kimberly Garza	“Real Lives True Stores: Peer Interactions in Middle School Girls”	Committee Member	
<b>Master of Science in Oral Sciences (Thesis), Orthodontics</b>				
2023	Kayla Yip	“Childhood body mass index and dental crowding”	Committee Chair	Winner: Best Population/Public Health Sciences (Resident), UIC Clinic and Research Day 2023
2023	Pheba Abraham	“A longitudinal investigation of COVID-19’s impact on economic security, food insecurity, and access to dental and orthodontic care”	Committee Chair	AAOF Research Aid Award (see Extramural Funding)
2022	Matan Farhi	“Application of huMANid forensic tool in a diverse, clinical population in Chicago”	Committee Chair	
2022	Jessica Hedger	“A longitudinal assessment of the relationship between facial growth and BMI”	Committee Chair	
2021	Diana (Katy) Cardona-Salazar	“Investigating the relationship between diet and timing of dental development”	Committee Chair	
2021	Tyler Ramir	“Linking malocclusion and body mass via genetic variants within the Hippo signaling pathway and dietary factors”	Committee Member	
2021	Julie Lee	“Linking dental arch form and body mass index via genetic variants within the Hippo signaling”	Committee Member	
2020	Annie Nguyen	“Analysis of growth of the retromolar space”	Committee Chair	
2020	Nora Bakhsh	“Alveolar cleft defect variation and biomechanical implications”	Committee Chair	
2020	Yena Jun	“Analysis of cleft palate defect variation in a large animal (canine) model”	Committee Chair	
2019	Zesheng Chen	“Accuracy of Indirect Bonding of Composite Attachments on Dental Arch Using Four Transfer Tray Variations”	Committee Member	
2019	Henna Abbasi	“Development of palatal shape in cleft and non-cleft infants and toddlers”	Committee Chair	
2019	Lauren Gordon	“Adolescent BMI and mandibular morphology”	Committee Chair	

2018	Alena Bukhar	"The effect of head position on crown/root ratio assessed from panoramic radiographs"	Committee Member	
2018	Bethsy Santos (U. Puerto Rico)	"Genotype-phenotype study of ectopic canines and arch shape"	External Committee Member	
2017	Kevan Kedavy (U Iowa)	"A longitudinal study of the relationship between childhood BMI and timing of dental development"	External committee member/co-chair	
<b>Master of Science in Oral Sciences (Thesis/Capstone), Pediatric Dentistry</b>				
2023	Ilana Kramer	"Childhood obesity and oral health: Inflammation and dental maturation"	Committee Chair	Winner: Best Basic/Translational Sciences (Resident), UIC Clinic and Research Day 2023
2021	Chad Silver	"Childhood obesity, oral inflammation, and oral health"	Committee Chair	
2020	Natalie Tomas	"Forensic ancestry estimation using huMANid: examining the reliability of huMANid in a pediatric clinic population"	Committee Member	
2020	Deric Truskoski	"Examining the relationship between childhood obesity, oral inflammation, and dental development"	Committee Chair	Winner: Best Literature Review (Resident), UIC Clinic and Research Day 2019
2020	Mohamad Alhadlaq	"Age Estimation in Children with History of Acute Lymphoblastic Leukemia and Chemotherapy"	Committee Member	
2019	Matthew Strumpf	"A comparison of environment and ancestry in estimating dental age for forensic contexts"	Committee Chair	
<b>Master of Science in Oral Sciences (Capstone), Oral and Maxillofacial Surgery</b>				
2020	Omar Suhaym	"Cutting Guide Accuracy in Computer-Assisted Mandibular Tumor Ablation"	Committee Member	
<b>Predoctoral (DDS/DMD)</b>				
2019-20	Yiran Xu (DMD)	"Periodontal health and childhood obesity"	Research Mentor	Winner: SCADA Best Dental Student in Clinical/Clinical Translational/Behavioral Health at COD Clinic and Research Day; Clinical/Clinical Translational Science: Best Dental Student, UIC Clinic and Research Day 2020
2019-20	Isaac Empson	"Comparing the Demirjian and London Dental	Research	

	(DMD)	Atlas Dental Age Estimation Methods”	Mentor	
2016-19	Benjamin Salameh (DMD)	“Genotype/phenotype correlation of mandibular shape and growth hormone receptor”	Research Mentor	Winner: 1 <sup>st</sup> place Basic Science – Pre-doctoral Students, UIC Clinic and Research Day 2018
2016-18	Katy Salazar (AS-DMD)	“Development of palatal shape in cleft and non-cleft infants and toddlers”	Research Mentor	
2015-18	Andrew Richter (DDS)	“Absolute tooth length and predicting the timing of dental eruption”; “Childhood obesity, dental development, and mandibular growth”	Research Mentor	Awarded College of Dentistry Summer Research Award 2016, 2017
Summer 2017	Rachael Cole (DMD)	“Dental crowding and obesity in the Denver Growth Study”	Research Mentor	
2015-16	David Knight (DDS)	“Patterns of integration and shape variation across the three components of the nasal septum in extant humans”	Research Mentor	
<b>Undergraduate Honors Capstone</b>				
2020-2022	Alyssa Ramos	“Three-dimensional analysis of the proximal articular surface of the first metacarpal across hominids”	Research Mentor	Winner: 1 <sup>st</sup> Place Oral Presentation ILSAMP 2022 (Illinois Louis Stokes Alliance for Minority Participation); 1 <sup>st</sup> place Basic Science – Undergraduate, UIC Clinic and Research Day 2022; UIC COD Student Research Group – Best Undergraduate, UIC Clinic and Research Day 2022
2018-20	Rameen Masroor	“Childhood obesity, oral health, and the oral microbiome”	Research Mentor	Awarded CURA (Chancellor’s Undergraduate Research Award) funding 2018-2019, 2019-2020
2018-20	Jessica Samawi	“Dental caries burden in obese and non-obese children”	Research Mentor	
2017-18	Disha Kadakia	“A survey of Latham and Nasoalveolar Molding Technique use frequency”	Research Mentor	
2017-18	Kyleen Jan	“The effect of SNED1 on craniofacial growth”. Co-advisor: Alexandra Naba, College of Medicine	Research Co-Mentor	Awarded LASURI (Liberal Arts and Sciences

				Undergraduate Research Initiative)
2017-18	Sayali Patankar	“An investigation of variation in cleft defect shape and size”	Research Mentor	
<b>Undergraduate</b>				
2019-20	Emanuel de la Fuente	“Phenotypic analysis of neural crest cell specific SNED1 knockout mice”. Co-advisor: Alexandra Naba, College of Medicine	Research Co-Mentor	L@s GANAS fellow
2019-20	Medard Nyemb	“Facial morphology by skeletal pattern”	Research Mentor	L@s GANAS fellow
2019-20	Cierra Sledge	“Comparison of metacarpal articular surface between hominins and non-human apes”	Research Mentor	
Summer 2018	Luai Akhras (NIU)	“The effect of cold climate on internal nasal morphology”	Research Mentor	
2018	Chris (Sang) Han (Augusta U)	“Cleft arch shape growth”	Research Mentor	
2017-19	Crystal Ortiz	“Childhood obesity and dental crowding” Co-advisor: Jennifer Caplan, Dept. of Orthodontics	Research Co-Mentor	Awarded CURA (Chancellor’s Undergraduate Research Award) funding 2017-2018, 2018-2019; selected for RTCP program
<b>Other</b>				
2016-18	Julie Lee (DMD, UIC Class of 2015)	“The Effects of the Latham Millard Device on the Maxillary Growth of Patients with Cleft Lip and Palate Using Cephalometric Data”	Research Mentor	
2016-18	George Johnson (BS, UIC Class of 2016)	“Patterns of maxillary/mandibular integration across growth in skeletal Class I vs skeletal Class II children”	Research Mentor	

## SERVICE

### Departmental

- 2021-2022 Clinical Assistant Professor of Anthropology (Forensics) search committee member, Department of Anthropology, UIC
- 2021 Clinical Assistant Professor of Orthodontics (PT) search committee member, Department of Orthodontics, UIC
- 2020 Clinical Assistant Professor of Orthodontics search committee member, Department of Orthodontics, UIC
- 2019-2020 Assistant Professor of Biomedical Anthropology search committee member, Department of Anthropology, UIC
- 2019 Anthropology Visiting Assistant Professor (Forensics) search committee member, Department of Anthropology, UIC
- 2016-present Orthodontic post-graduate admissions committee member, Department of Orthodontics, UIC

2013-2014 President, Anthropology Graduate Student Association, University of Iowa  
 2012-2013 Treasurer, Anthropology Graduate Student Association, University of Iowa  
 2008-2015 ANTH-GRAD listserv moderator for Anthropology Graduate Student Association, University of Iowa

#### College

2023-present Member, College of Dentistry Executive Committee, UIC  
 2023-present Member, College of Dentistry Research Advisory Committee, UIC  
 2022-present Chair, *ad hoc* PhD in Oral Sciences Advisory Committee, College of Dentistry, UIC  
 2021 Chair, *ad hoc* MS in Oral Sciences Illinois Board of Higher Education External Review Committee, UIC  
 2020-present Chair, *ad hoc* MS in Oral Sciences Advisory Committee, UIC  
 2020-present Committee member, Admissions Committee, College of Dentistry, UIC  
 2020-present Committee member, Graduate Dental Education Committee, College of Dentistry, UIC  
 2019-present Committee member Wach's Fund Grant Review Committee, College of Dentistry, UIC  
 2019-2022 Committee member, Student, Faculty, Staff Relations Committee, College of Dentistry, UIC  
 2017-present Abstract reviewer and poster judge, Local Research Day, College of Dentistry, UIC  
 2017-present Founder and chair, Craniofacial Research Group Seminar Series, College of Dentistry, UIC  
 2017-2021 Committee member, D1 basic science curriculum working group, College of Dentistry, UIC  
 2015-2016 Member, College of Dentistry Diversity Committee, University of Iowa  
 2011-2013 Grant reviewer, PAGs Research Grant, Executive Council of Graduate and Professional Students, University of Iowa

#### University

2023-present Member (College of Dentistry Representative), University Senate (UIC)  
 2022-present Member, HLC Criteria 3 Team (UIC)  
 2020-present Co-Chair, Graduate and Professional Subcommittee, Senate Committee on Educational Policy (UIC)  
 2018-present Member, Senate Committee on Educational Policy (UIC)  
 Spring 2018 Poster judge, Student Research Forum (UIC)  
 2017-present Honors College Fellow, U. Illinois Chicago Honors College  
 Spring 2017 Poster judge, Student Research Forum (UIC)  
 2015-2016 College of Dentistry Representative, U. Iowa Postdoctoral Association  
 2015 Judge, Spring Undergraduate Research Festival poster contest (4/8) (Iowa)  
 2013 Judge, Fall Undergraduate Research Festival poster contest (12/4) (Iowa)  
 2012-2016 Critical MASS Mentor, University of Iowa

## Profession

- 2021-present Treasurer, Dental Anthropology Association
- 2017-present Committee member, American Association for Physical Anthropologists Annual Meeting Program Committee (note: did not participate in 2020)
- 2016-present Reviewer: *American Journal of Physical Anthropology*, *Journal of Anatomy*, *Journal of Dental Research*, *Journal of Translational Medicine*, *PeerJ*, *Sultan Qaboos University Medical Journal*, *Anatomical Record*, *Angle Orthodontist*, *Progress in Orthodontics*, *Archives of Oral Biology*, *International Journal of Oral & Maxillofacial Implants*, *Dental Anthropology Journal*, *European Journal of Orthodontics*
- 2016-2018 Undergraduate Research Mentor, American Association of Physical Anthropologists, Committee on Diversity – Undergraduate Research Symposium
- 2014-2016 Abstract Reviewer, American Association of Physical Anthropologists Annual Meeting Undergraduate Research Symposium

## LANGUAGES

- Spanish Strong reading ability, conversational speaking, adequate writing
- German Can read with dictionary, conversational speaking, adequate writing
- Greek Basic speaking skills

## PROFESSIONAL MEMBERSHIPS

- 2021-present Dental Anthropology Association
- 2016-present American Dental Education Association
- 2015-present European Society for the Study of Human Evolution
- 2015-2017 British Association for Biological Anthropology and Osteoarchaeology
- 2014-2018 Academy of Osseointegration
- 2014-present American Association of Dental, Oral and Craniofacial Research/International Association of Dental Research
- 2014-present Paleoanthropology Society
- 2012-present Sigma Xi, Scientific Research Society
- 2012-present American Association of University Women
- 2012-present American Association for Anatomy
- 2008-present American Association of Biological (Physical) Anthropologists