Curriculum Vitae

Nicholas B. Holowka

nick_holowka@fas.harvard.edu
nickholowka@gmail.com
http://nicholasholowka.weebly.com/

Profile:

Birth Date: June 6, 1985
Address: Department of Human Evolutionary Biology
Harvard University
Peabody Museum
11 Divinity Ave
Cambridge MA, 02138

Current Position:

Postdoctoral Fellow/Lecturer. Department of Human Evolutionary Biology, Harvard University.

Education:

PhD. Interdepartmental Doctoral Program in Anthopological Sciences, Stony Brook University. 2015.
Dissertation: 'Kinematics of the Chimpanzee Foot During Terrestrial and Arboreal Locomotion'
Advisor: Brigitte Demes

MA. Human Skeletal Biology, New York University. 2010.
Thesis: 'Primate locomotion and muscular mechanical advantage of the elbow'
Advisor: Terry Harrison

BA. Anthropology, Wesleyan University.

Research Publications:

2016. Fernández PJ*, **Holowka NB***, Demes B, Jungers WL. Form and function of the human and chimpanzee forefoot: implications for early hominin bipedalism. *Scientific Reports* 6, 30532. DOI: 10.1038/srep30532 *These authors contributed equally to the manuscript.

2015. Thompson NT, Demes B, O'Neill MC, **Holowka NB**, Larson SG. Surprising trunk rotational capabilities in chimpanzees and implications for bipedal walking

proficiency in early hominins. *Nature Communications* 6, 8416. DOI: 10.1038/ncomms9416

2014. Thompson NT, **Holowka NB**, O'Neill MC, Larson SG. Brief Communication: Cineradiographic analysis of the chimpanzee (*Pan troglodytes*) talonavicular and calcaneocuboid joints. *American Journal of Physical Anthropology* 154, 604-608. DOI: 10.1002/ajpa.22529

2013. **Holowka NB**, O'Neill MC. Three-dimensional moment arms and architecture of chimpanzee (*Pan troglodytes*) leg musculature. *Journal of Anatomy* 223, 610-628. DOI: 10.111/joa.12121

2013. Poire X, Moser BK, Gallagher RE, Laumann K, Bloomfield CD, Powell BL, Koval G, Gulati K, **Holowka N**, Larson RA, Tallmann MS, Appelbaum FR, Sher D, Willman C, Paietta E, Stock W. Arsenic trioxide in front-line therapy of acute promyelocytic leukemia (C9710): Prognostic signficance of FLT3 mutations and complex karyotype. *Leukemia & Lymphoma.* DOI: 10.3109/10428194.2013.842985.

Published Abstracts:

2016 **Holowka NB,** Fernández PJ. Functional morphology of the metatarsophalangeal joints in chimpanzees and humans: a kinematic and morphometric approach. American Journal of Physical Anthropology 62S: 176.

2015 **Holowka NB**, Demes B, O'Neill MC, Thompson NE. Chimpanzee foot and ankle joint motion during vertical climbing. American Journal of Physical Anthropology 60S: 169.

2014 **Holowka NB**, Demes B, O'Neill MC. Three-dimensional foot kinematics of chimpanzees and humans during bipedal locomotion. American Journal of Physical Anthropology 58S: 144.

2013 **Holowka NB**, O'Neill MC. Three-dimensional moment arms and architecture of chimpanzee (*Pan troglodytes*) leg musculature. *American Journal of Physical Anthropology* 56S: 151.

2011 **Holowka, N**. A comparative study of the anatomical mechanical advantage of the elbow flexor and extensor muscles in anthropoid primates. *American Journal of Physical Anthropology* 52S: 166.

2008 Stock W, Najib K, Moser BK, Powell BL, **Holowka N**, Gulati K, Bloomfield CD, Larson RA, Sher D. High incidence of FLT3 mutations in adults with Acute Promyelocytic Leukemia (APL): Correlation with diagnostic features and treatment outcome. Journal of Clinical Oncology 26 (15S): 7002.

Published Conference Reviews:

2015 Perlman RF, de Vries D, Jacobs RL, **Holowka NB**, Pain EL, Guevara EE, Thompson NE. Gateway to Anthopology in St. Louis. Evolutionary Anthropology (New and Reviews) 24: 101-103.

2014 Thompson NE, Cassalett S, **Holowka NB**, Perlman RF, Mongle C. Anthropology stampede in Calgary. Evolutionary Anthropology (News and Reviews) 23: 85-87.

2011 Baden AL, Maiolino SA, **Holowka N**, Jacobs R. Eightieth annual meeting of the American Association of Physical Anthropologists. Evolutionary Anthropology (News and Reviews) 20: 123-125.

Graduate Teaching:

The Body (Teaching Assistant), Stony Brook University School of Medicine. 2013.

Regional Human Anatomy (Teaching Assistant), Stony Brook University School of Medicine. 2012.

Undergraduate Teaching:

Research in Comparative Biomechanics (Co-Instructor), Harvard University. 2016.

Introduction to Biological Anthropology (Teaching Assistant), Stony Brook University. 2012.

Human Anatomy (Laboratory Instructor), Stony Brook University. 2011-2015.

African Peoples and Culture (Teaching Assistant), Stony Brook Univeristy. 2010.

Introductory Anthropology (Teaching Assistant), Wesleyan University. 2007.

Paleoanthropology (Teaching Assistant), Wesleyan University. 2005.

Research Awards:

2014-2016	L.S.B. Leakey Foundation: 'Kinematics of the Chimpanzee Foot During Terrestrial and Arboreal Locomotion.' $9,291 ($4,748 accepted)
2014-2016	Wenner-Gren Foundation: 'Kinematics of the Chimpanzee Foot During Terrestrial and Arboreal Locomotion.' $14,925 ($10,380 accepted)
2011-14	American Association of Physical Anthropologists, William S. Pollitzer Student Travel Award. $2,000 (cumulative).
2008-10	NYU Departmental Fellowship for Graduate Study in Anthropology. $8,000 (cumulative).

Academic Awards:

2015 American Association of Physical Anthropologists, Student Presentation Award, Honorable Mention.

Professional Associations:

2009–present American Association of Physical Anthropologists

Appointments:

2010-15 Teaching Assistant, Department of Anthropology, Stony Brook University

2011 Research Assistant, Department of Anatomy, Stony Brook Universtiy Medical Center

2007-08 Research Technician, Laboratory of Dr. Wendy Stock, Department of Oncology, University of Chicago Medical Center.

Research Apprenticeships:

2011 Stony Brook University Primate Locomotion Laboratory
Principal Investigator: Dr. Susan Larson

2009 NYU Molecular Anthropology Laboratory
Principal Investigator: Dr. Todd Disotell

Field Experience:

2014 Early Cretacious Cloverly Formation, Bighorn Basin, WY
Institution: Stony Brook University
Field Director: Dr. Michael D'Emic

2009 Cueva Negra, Murcia Province, Spain
Institution: Universidad de Murcia
Field Director: Dr. Michael Walker

Undergraduate Mentorship:

2015 Vincent Bhandal, Undergraduate, Stony Brook University. Project: 'Hind Limb Impact Peak Forces During Chimpanzee Locomotion.'

2014-15 Otto Lam, Undergraduate, Stony Brook University. Stony Brook University Undergraduate Research and Creative Acitivities (URECA) Symposium presentation: ‘Analysis of the Chimpanzee Foot Strike During Bipedal Locomotion.’

Service:

2014-15 Long Island Science and Engineering Fair, Judge, Animal Sciences Competion.

2013-14 Graduate Student Representative to Anthropology Department Executive Committee, Stony Brook University

2012-14 Graduate Student Organization Senate Representative for Anthropology Department, Stony Brook University