

## CURRICULUM VITAE

### Kristin (Melvin) Young, PhD, MS-CR

University of North Carolina at Chapel Hill  
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### RESEARCH INTERESTS

Genetic epidemiology of obesity, genetic and environmental effects on health disparities, anthropological genetics, biocultural interaction, population structure, genomics, statistical genetics

### EDUCATION

|                          |   |                   |
|--------------------------|---|-------------------|
| Post-Doctoral Fellowship | <b>Carolina Population Center</b><br>University of North Carolina at Chapel Hill<br>Mentors: Penny Gordon-Larsen, PhD<br>Kari E. North, PhD   | June 2012-present |
| MS-CR                    | <b>University of Kansas Medical Center</b><br>Advisor: K. Allen Greiner, MD, MPH  | 2011              |
| Post-Doctoral Fellowship | <b>University of Kansas Medical Center</b><br>Sunflower Scholars Program<br>Department of Family Medicine<br>Mentors: K. Allen Greiner, MD, MPH<br>Kim Kimminau, PhD  | 2009-2011         |
| PhD                      | <b>University of Kansas Department of Anthropology</b><br>Doctoral Dissertation: <i>The Basques in the genetic landscape of Europe</i><br>Advisor: Dr. Michael H. Crawford  | 2009              |
| MA                       | <b>University of Kansas Department of Anthropology</b><br>Master's Thesis: <i>Genetic diversity among the Chuvash using Randomly Amplified Polymorphic DNA (RAPD) markers</i><br>Advisor: Dr. Michael H. Crawford | 2001              |
| BS                       | <b>University of Oklahoma</b><br>Major: Zoology, <i>Summa Cum Laude</i>   | 1995              |
| BA                       | <b>University of Oklahoma</b><br>Major: Anthropology, <i>with distinction</i><br>Minor: Native American Studies   | 1995              |

**PROFESSIONAL EXPERIENCE**

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|---|-------------------------|
| <b>Lecturer</b><br>University of North Carolina at Chapel Hill<br>Department of Anthropology<br><i>ANTH 315: Human Genetics and Evolution</i>   | Fall 2013               |
| <b>Postdoctoral Scholar</b><br>Carolina Population Center<br>University of North Carolina at Chapel Hill  | January 2012-present    |
| <b>Research Instructor</b><br>University of Kansas Medical Center   | July 2009-December 2011 |
| <b>Instructor</b><br>University of Kansas Continuing Education<br><i>ANTH 104/304: Fundamentals of Physical Anthropology</i>  | August 2001- May 2010   |
| <b>Instructor</b><br>Kansas State University<br>Department of Sociology, Anthropology, and Social Work<br><i>ANTH 280: Introduction to Physical Anthropology</i>                                  | Spring 2007             |
| <b>Graduate Research Assistant</b><br>University of Kansas, Laboratory of Biological Anthropology<br>Project Title: Kansas Nutrition Project  | 2002-2004               |
| <b>Instructor</b><br>University of Kansas<br>Department of Anthropology<br><i>ANTH 104/304: Fundamentals of Physical Anthropology</i>   | 2001-2003, 2006         |
| <b>Teaching Assistant</b><br>University of Kansas<br>Department of Anthropology<br><i>ANTH 104/304: Fundamentals of Physical Anthropology</i><br><i>ANTH 342: Introduction to Human Nutrition</i> | 1998-2002               |
| <b>Summer Research Assistant</b><br>University of Kansas<br>Laboratory of Biological Anthropology   | 1997-2000               |
| <b>Research Assistant</b><br>University of Oklahoma, Department of Zoology<br>Neurophysiology Laboratory  | 1991-1995               |
| <b>Research Assistant</b><br>University of Oklahoma, Department of Zoology<br>Comparative Physiology and Physiological Ecology<br>Laboratories  | 1990-1992               |

**HONORS**

|   |      |
|---|------|
| <b>Ethan Sims Young Investigator Finalist</b><br>The Obesity Society  | 2014 |
| <b>Postdoctoral Fellowship</b><br>Carolina Population Center<br>University of North Carolina at Chapel Hill | 2012 |

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| <b>Invited International Faculty</b>   | 2011         |
| <i>7<sup>th</sup> ISABS Conference in Forensic, Anthropologic, and Medical Genetics and Mayo Clinic Lectures in Translational Medicine</i> |              |
| Bol, Croatia   |              |
| <b>NIH Summer Institute Participant</b>  | 2010         |
| <i>NIH Summer Institute for Transdisciplinary Research: Integrating Genetic and Social Work Research</i>                                   |              |
| <b>K30 Clinical Research Fellowship</b>  | 2009-2011    |
| Department of Preventive Medicine and Public Health<br>University of Kansas Medical Center   |              |
| <b>NRSA Postdoctoral Fellowship</b>  | 2009-2011    |
| Department of Family Medicine Research Division<br>University of Kansas Medical Center   |              |
| <b>William S. Pollitzer Prize</b>  | 2007         |
| American Association of Physical Anthropologists   |              |
| <b>Carroll D. Clark Research Award</b>   | 2007         |
| Department of Anthropology, University of Kansas   |              |
| <b>Graduate School Travel Award</b>  | 2007         |
| Kansas University Center for Research  |              |
| <b>Graduate School Honors Fellowship</b>   | 1996-2000    |
| University of Kansas   |              |
| <b>Phi Beta Kappa</b>  | 1995-Present |
| University of Oklahoma   |              |

**MEMBERSHIPS**

American Society of Human Genetics  
 American Association of Anthropological Genetics  
 American Association of Physical Anthropologists  
 Human Biology Association  
 The Obesity Society  
 American Heart Association  
 National Postdoctoral Association

**PUBLICATIONS**

Texts:

Frayner, DW, **K Melvin**. Fundamentals of Physical Anthropology Independent Study 2004  
 Text. 245 pp. Lawrence, KS: University of Kansas

Book Chapters:

**Young, KL**, EJ Devor, MH Crawford. Demic expansion or cultural diffusion: 2012  
 Migration and Basque Origins. pp.224-249. In: Crawford, MH, BC Campbell  
 (editors), *Causes and Consequences of Human Migration*. Cambridge: Cambridge  
 University Press.

## Peer-reviewed Articles:

- Young, KL**, M Graff, KE North, AS Richardson, KL Mohlke, LA Lange, EM Lange, KM Harris, PG Larsen. Interaction of smoking and obesity susceptibility loci on adolescent BMI. In press at *BMC Genetics*. 2015
- LA Lange, M Graff, EM Lange, **KL Young**, KM Harris, AS Richardson, KL Mohlke, KE North, P Gordon-Larsen. Evidence for association between *SH2B1* gene variants and glycated hemoglobin in non-diabetic European American young adults: The Add Health study. Submitted to *Annals of Human Biology*. 2015
- Justice, AE\*, AG Howard\*, G Chittoor\*, L Fernandez-Rhodes, VS Voruganti, SM Love, N Franceschini, CL Avery, M Graff, **KL Young**, KE North. Genome-Wide association of trajectories of systolic blood pressure change. Accepted for publication in *BMC Proceedings Special Issue for GAW 19*. 2015
- L. Fernández-Rhodes, M Graff, CJ Hodonsky, SM Love, AA Seyerle, CL Avery, G Chittoor, N Franceschini, AG Howard, VS Voruganti, **K Young**, KE North, A Justice. Comparison of gene-environment methods using simulated GAW19 family-based data. Accepted for publication in *BMC Proceedings Special Issue for GAW 19*. 2015
- Mabachi, N, S Finocchiaro-Kessler, C Hester, N Nazir, **KL Young**, C Dietz, K Kimminau. HIV Testing in a Safety Net Dental Clinic: Characterizing patients that opt out or are not offered rapid HIV testing. *Under review at Journal of Health Care for the Poor and Underserved*. 2015
- Young, KL**, M Graff, KE North, AS Richardson, JP Bradfield, SFA Grant, LA Lange, EM Lange, KM Harris, P Gordon-Larsen. Influence of SNP\*SNP interaction on BMI in European American Adolescents: Findings from the National Longitudinal Study of Adolescent Health. *Pediatric Obesity*. [Epub ahead of print] doi: 10.1111/ijpo.12026. 2015
- Hester, CM, WK Born, HW Yeh, **KL Young**, AS James, CM Daley, KA Greiner. Decisional stage distribution for colorectal cancer screening among diverse, low-income study participants. *Health Education Research* doi:10.1093/her/cyv006. [Epub ahead of print] PMID: 25721254. 2015
- Y. Ma, KL Tucker, CE Smith, YC Lee, T Huang, K Richardson, LD Parnell, CQ Lai, **KL Young**, AE Justice, Y Shao, KE North, JM Ordovás. Lipoprotein lipase variants interact with polyunsaturated fatty acids for obesity traits in women: Replication in two populations. *Nutrition, Metabolism, and Cardiovascular Diseases* 24(12):1323-39. PMID: 25156894. 2014
- C-T Liu\*, **KL Young\***, J Brody, M Olden, MK Wojczynski, N Heard-Costa, G Li, AC Morrison, D Muzny, RA Gibbs, JG Reid, Y Shao, Y Zhou, E Boerwinkle, G Heiss, L Wagenknecht, B McKnight, IB Borecki, CS Fox, KE North, LA Cupples. Sequence variation in *TMEM18* in association with body mass index: the Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) targeted sequencing study. *Circulation: Cardiovascular Genetics* 7(3):344-349. PMID: 24951660. 2014
- Graff, M, KE North, AS Richardson, **KL Young**, KL Mohlke, LA Lange, EM Lange, KM Harris, P Gordon-Larsen. Screen time behaviors may interact with obesity genes, independent of physical activity, to influence adolescent

- BMI in an ethnically diverse cohort. *Pediatric Obesity* 8(6):e74-79. PMID: 24039247.
- Richardson, AS, KE North, M Graff, **KL Young**, KL Mohlke, LA Lange, EM Lange, 2013  
KM Harris, P Gordon-Larsen. Moderate to vigorous physical activity  
interactions with genetic variants and body mass index in a large US  
ethnically diverse cohort. *Pediatric Obesity* 9(2):e35-46. PMID:  
23529959.
- Lumpkins CY, P Cupertino, **KL Young**, C Daley, H-W Yeh, KA Greiner. Racial/Ethnic 2012  
variations in colorectal cancer screening self-efficacy, fatalism and risk  
perception in a safety-net clinic population: Implications for tailored  
interventions. *Journal of Community Medicine and Health Education* 3: pii:  
11284. PMID: 24244894.
- Graff, M, KE North, KL Mohlke, LA Lange, J Luo, KM Harris, **KL Young**, AS 2012  
Richardson, EM Lange, P Gordon-Larsen. Estimation of genetic effects on  
BMI during adolescence in an ethnically diverse cohort: The National  
Longitudinal Study of Adolescent Health. *Journal of Nutrition and Diabetes* 2  
(e47). doi:10.1038/nutd.2012.20. PMID: 23168566.
- Quick, BW, CM Hester, **KL Young**, KA Greiner. Self-reported barriers to colorectal 2012  
cancer screening in a racially diverse, low-income study population.  
*Journal of Community Health*. 38(2):285-92. PMID:22976770.
- Filippi, MK, **KL Young**, N Nazir, C Williams, T Brown, WS Choi, KA Greiner, CM 2011  
Daley. American Indian/Alaska Native willingness to provide biological  
samples for research purposes. *Journal of Community Health* 37:701-705.  
PMID: 22087422.
- Young, KL**, G Sun, R Deka, MH Crawford. Paternal genetic history of the Basque 2011  
population of Spain. *Human Biology* 83(4): 455-475. PMID: 21846204.
- Young, KL**, G Sun, R Deka, MH Crawford. Autosomal STR genetic variation in the 2011  
Basque population of Spain. *Croatian Medical Journal* 52(3):372-383.  
PMID:21674834
- Rubicz, R, M Zlojutro, G Sun, V Spitsyn, R Deka, **KL Young**, and MH Crawford. 2010  
Genetic architecture of a small, recently aggregated Aleut population: Bering  
Island, Russia. *Human Biology* 82(5-6):719-736. PMID: 21417891.
- Young, K**, J Relethford, MH Crawford. Postfamine Stature and Secular Trend in 2008  
Ireland. *American Journal of Human Biology* 20(6):726-731. PMID:  
18720402.
- Lefevre-Witier, P, H Aireche, M Benabadji, P Darlu, **K Melvin**, A Sevin, and MH 2006  
Crawford. Genetic structure of Algerian populations. *American Journal of  
Human Biology* 18(4):492-501. PMID: 16788894.
- Arnaiz-Villena, A, J Martinez-Laso, J Masco, G Livshits, J Zamora, E Gomez-Casado, C 2003  
Silvera-Redondo, **K Melvin**, MH Crawford. HLA Genes in the Chuvashian  
population from European Russia: Admixture of Central European and  
Mediterranean populations. *Human Biology* 75(3): 375-392. PMID:  
14527201.
- Rubicz, R, **K Melvin**, MH Crawford. Genetic evidence for the phylogenetic 2002  
relationship between Na-Dene and Yeniseian speakers. *Human Biology*  
74(6): 743-760. PMID: 12617487.

**CONFERENCE PAPER PRESENTATIONS**

- Highland HM, V Turcot, Y Lu, C Schurmann, AE Justice, **KL Young**, J Wang, P Lenzini, M Graff, LA Cupples, TM Frayling, JN Hirschhorn, G Lettre, CM Lindgren, KE North, IB Borecki, RJF Loos, for the BBMRI, GoT2D, CHARGE, and GIANT Consortia. ExomeChip meta-analysis of 526,508 individuals from five ancestries identifies novel coding variation associated with body mass index. Presented at the 68<sup>th</sup> Annual Meetings of the American Society for Human Genetics, Baltimore. 2015
- KL Young**, V Fisher, A Justice, T Winkler, J Czajkowski, M Graff, L Xue, Q Qi, A Mahajan, L Qi, D Hadley, J Ngwa, NL Heard-Costa, P Franks, K Monda, MF Feitosa, T Kilpeläinen, R Loos, I Borecki, K North, LA Cupples, on behalf of the GIANT Consortium. Influence of Gene-by-Smoking Interaction on Obesity Related Traits: The Giant (Genetic Investigation of ANthropometric Traits) Consortium. Presented at the 32<sup>nd</sup> Annual Meeting of the Obesity Society, Boston. 2014
- Graff, M, K Sin Lo, K Stirrups, C Medina-Gomez, T Esko, NL Heard-Costa, AE Justice, TW Winkler, L Southam, C Schurmann, J Czajkowski, Y Lu, **KL Young**, TL Edwards, A Giri, C Lindgren, IB Borecki, KE North, M McCarthy, JN Hirschhorn, P Deloukas, F Rivadeneira, TM Frayling, RJF Loos, G Lettre, For the BBMRI, the GOT2D, the CHARGE, and the GIANT Consortia. Exploring the role of rare and low-frequency coding variants in adult height using an ExomeChip. Presented at the 67<sup>th</sup> Annual Meetings of the American Society for Human Genetics, San Diego. 2014
- Turcot, V, Y Lu, J Czajkowski, HM Highland, NGD Masca, TL Edwards, T Esko, M Graff, **AE Justice**, C Medina-Gomez, C Schurmann, RA Scott, K Sin Lo, SS Sivapalaratnam, L Southam, K Stirrups, TW Winkler, H Yaghootkar, **KL Young**, LA Cupples, TM Frayling, JN Hirschhorn, G Lettre, CM Lindgren, KE North, I Borecki, RJF Loos, For the BBMRI, the GOT2D, the CHARGE, and the GIANT Consortia. Contribution of low-frequency variants to variation in body mass index (BMI). Presented at the 67<sup>th</sup> Annual Meetings of the American Society for Human Genetics. San Diego. 2014
- Graff, M, L Xue, TO Kilpeläinen, A Justice, T Winkler, KL Young, R Scott, Q Qi, D Hadley, A Mahajan, TS Ahluwalia, AY Chu, J Czajkowski, L Qi, J Ngwa, T Haller, KL Monda, MC Zillikens, M Grove, NL Heard-Costa, PW Franks, IB Borecki, RJF Loos, KE North, and LA Cupples. A genome-wide meta-analysis of the combined influence of physical activity and genetic variants on body fat distribution in 94,779 Individuals of European descent. *Circulation* 129 (Suppl 1). 2014
- KL Young**, D Hadley, A Justice, T Winkler, M Graff, J Ngwa, J Czajkowski, TS Ahluwalia, L Xue, Q Qi, A Mahajan, L Qi, P Franks, K Monda, NL Heard-Costa, TO Kilpeläinen, R Loos, I Borecki, K North, and LA Cupples. Influence of Smoking and Sex on Genetic Associations of Body Fat Distribution: The Giant (Genetic Investigation of ANthropometric Traits) Consortium. *Circulation* 129 (Suppl 1), A22-A22. 2014
- A Justice, T Winkler, J Ngwa, J Czajkowski, **K Young**, D Hadley, M Graff, D Chasman, 2014

- Q Qi, MC Zillikens, MF Feitosa, TS Ahluwalia, P Franks, TO Kilpeläinen, T Haller, K Monda, NL Heard-Costa, I Borecki, R Loos, K North, and LA Cupples on behalf of the GIANT Consortium. Accounting For Smoking Behavior In Genome-wide Analysis Of Obesity Phenotypes: The Giant (genetic Investigation Of Anthropometric Traits) Consortium. *Circulation* 129 (Suppl 1), A21-A21.
- Justice, AE, TW Winkler, J Ngwa, **KL Young**, D Hadley, M Graff, JM Vink, L Xue, TS Ahluwalia, T Lehtimäki, RJ Strawbridge, MC Zillikens, MF Feitosa, NL Heard-Costa, JH Zhao, J Luan, N Direk, H Tiemeier, HJ Grabe, TB Harris, RPS Middelberg, JV van Vliet-Ostaptchouk, IM Nolte, J Kaprio, TO Kilpeläinen, IB Borecki, RJF Loos, KE North, LA Cupples on behalf of the GIANT Consortium. Genome-wide joint meta-analysis for interaction between genetic variants and smoking on waist circumference. Presented at the 66<sup>th</sup> Annual Meetings of the American Society of Human Genetics, Boston. 2013
- Graff, M, KE North, AS Richardson, **KL Young**, KL Mohlke, LA Lange, EM Lange, KM Harris, P Gordon-Larsen. Sedentary behavior may interact with some obesity genes, independent of physical activity, to influence BMI: Findings from a US, ethnically-diverse, adolescent cohort. Presented at the 30<sup>th</sup> Annual Meeting of The Obesity Society, San Antonio. 2012
- Richardson, AS, KE North, M Graff, **KL Young**, LA Lange, EM Lange, KM Harris, P Gordon-Larsen. The Joint role of moderate to vigorous physical activity and established obesity genetic variants with body mass index in a large and ethnically diverse cohort of US adolescents. Presented at the 30<sup>th</sup> Annual Meeting of The Obesity Society, San Antonio. 2012
- Young, K.** The Basques in the genetic landscape of Europe. Presented at the 7<sup>th</sup> ISABS Conference in Forensic, Anthropologic, and Medical Genetics and Mayo Clinic Lectures in Translational Medicine, Croatia. 2011
- Schanfield, MS, S Miller, R Shyu, M Mount, HF Polesky, R Castro, H Ehrlich, U Eke, S Mack, RJ Mitchell, M Coble, **K Melvin**, MH Crawford. Evidence supporting two centers of population differentiation in East Asia: Siberia and SE Asia. Presented at the 78<sup>th</sup> annual meeting of the American Association of Physical Anthropologists, Illinois. 2009
- Mosher, MJ, **K Melvin**, R Rubicz, M Zlojutro, MH Crawford. Evidence of sex-effect in the relationship of dietary sugar to variation in plasma lipids. Paper presentation given at the 3rd Nordic Epidemiology Conference, Koupio, Finland. 2004
- Melvin, K**, R Rubicz, MH Crawford. Genetic Evidence for the Relationship Between Na-Dene and Yeniseian Speakers. Paper presentation given at the Arctic Archaeology Conference, Kansas. 2000
- CONFERENCE POSTER PRESENTATIONS**
- Young, KL**, AE Justice, T Karaderi, HM Highland, M Graff, V Turcot, P Auer, NL Heard-Costa, C Schurmann, Y Lu, D Pasko, L Southam, LA Cupples, C-T Liu, CS Fox, TW Winkler, N Grarup, RA Scott, M McCarthy, KL Mohlke, RJF Loos, IB Borecki, CM Lindgren, KE North, on behalf of the BBMRI, GOT2D, CHARGE and GIANT Consortia. Exome chip meta-analysis identifies novel 2015

- low-frequency variants contributing to central body fat distribution. Presented at the 68<sup>th</sup> Annual Meetings of the American Society for Human Genetics, Baltimore.
- Justice, A, **K Young**, SM Gogarten, M Graff, L Sánchez-Johnsen, CA Laurie, CR Isasi, 2015  
CC Laurie, KE North. Identifying genetic associations with waist-to-hip ratio in Hispanic/Latino ancestral background groups: the HCHS/SOL Study. Presented at the 68<sup>th</sup> Annual Meetings of the American Society for Human Genetics, Baltimore.
- Graff, M, L Fernandez-Rhodes, HM Highland, C Schurmann, Y Feng, M Cruz, A 2015  
Valladares-Salgado, J Rangarajan, C Rojo, X Guo, J Rotter, M Allison, RP Igo, A Pereira, E John, T Tusie-Luna, CA Aguilar Salinas, C Gonzalez, C Gignoux, S Iyengar, C Hanis, JE Below, F Hartwig, AE Justice, **KL Young**, CR Isasi, Q Qi, CC Laurie, AM Stilp, SM Gogarten, VS Voruganti, G Chittoor, R Duggirala, S Puppala, T Dyer, SS Albrecht, L Raffel, D Conti, E Ziv, E Parra, E Kenny, RJF Loos, C Haiman, KE North. Exploring genetic variants for anthropometric traits in Hispanic/Latino populations. Presented at the 68<sup>th</sup> Annual Meetings of the American Society for Human Genetics, Baltimore.
- Young, KL**, AE Justice, HM Highland, M Graff, T Karaderi, NL Heard-Costa, D Pasko, 2015  
V Turcot, Y Lu, L Southam, LA Cupples, CT Liu, CS Fox, TW Winkler, N Grarup, RA Scott, MM McCarthy, K Mohlke, RJF Loos, I Borecki, KE North, CM Lindgren, on behalf of GoT2D, BBMRI, CHARGE, and GIANT. Novel loci and low-frequency variants contributing to central body fat: Exome analysis in a multiethnic population. Presented at the 84<sup>th</sup> Annual Meetings of the American Association of Physical Anthropologists, St. Louis.
- Fisher, V, A Justice, T Winkler, N Heard-Costa, **K Young**, J Czajkowski, M Graff, X 2014  
Deng, T Ahluwalia, T Kilpeläinen, R Loos, I Borecki, K North, LA Cupples, on behalf of the GIANT Consortium. Genome-wide meta-analysis of smoking-dependent genetic effects on obesity traits: the GIANT (Genetic Investigation of ANthropometric Traits) Consortium. Presented at the 67<sup>th</sup> Annual Meetings of the American Society for Human Genetics, San Diego.
- Kilpeläinen TO, M Graff, RA Scott, A Justice, TW Winkler, L Xue, A Mahajan, D 2014  
Hadley, TS Ahluwalia, F Renström, T Workalemahu, M den Hoed, AY Chu, N Heard-Costa, J Czajkowski, J Ngwa, **K Young**, Q Qi, K Monda, KE North, IB Borecki, RJF Loos, LA Cupples. Genome-wide gene-physical activity interaction study of BMI and waist-hip-ratio in 180,418 individuals of European descent. Presented at the 67<sup>th</sup> Annual Meetings of the American Society for Human Genetics, San Diego.
- Justice, AE, HM Highland, **KL Young**, M Graff, T Karaderi, NL Heard-Costa, D Pasko, 2014  
V Turcot, Y Lu, L Southam, LA Cupples, CT Liu, CS Fox, TW Winkler, G Niels, RA Scott, MM McCarthy, K Mohlke, RJF Loos, I Borecki, KE North, CM Lindgren, For the BBMRI, the GOT2D, the CHARGE, and the GIANT Consortia. Exome chip meta-analysis identifies novel loci and low-frequency variants contributing to central body fat distribution. Presented at the 67<sup>th</sup> Annual Meetings of the American Society for Human Genetics, San Diego.
- Justice, AE\*, AG Howard\*, G Chittoor\*, L Fernandez-Rhodes, VS Voruganti, SM Love, 2014  
N Franceschini, CL Avery, M Graff, **KL Young**, KE North. Genome-Wide



- Association of Trajectories of Systolic Blood Pressure Change. Presented at the 19<sup>th</sup> Genetic Analysis Workshop, Vienna.
- Fernández-Rhodes L, M Graff, CJ Hodonsky, SM Love, AA Seyerle, CL Avery, G Chittoor, N Franceschini, AG Howard, VS Voruganti, **K Young**, KE North, A Justice. Comparison of Gene-Environment Methods using Simulated GAW19 Family-Based Data. Presented at the 19<sup>th</sup> Genetic Analysis Workshop, Vienna. 2014
- Justice, A, T Winkler, N Heard-Costa, **K Young**, J Czajkowski, M Graff, X Deng, V Fisher, T Kilpeläinen, LA Cupples. Genome-wide meta-analysis of smoking-dependent genetic effects on obesity traits: the GIANT (Genetic Investigation of ANthropometric Traits) Consortium. Presented at the 23<sup>rd</sup> Annual Meeting of the International Genetic Epidemiology Society, Vienna. 2014
- LA Lange, M Graff, EM Lange, **KL Young**, KM Harris, AS Richardson, KL Mohlke, KE North, P Gordon-Larsen. Evidence for association between *SH2B1* gene variants and glycated hemoglobin in non-diabetic European American young adults: The Add Health study. *Circulation* 129 (Suppl 1), AP262-AP262. 2014
- Young, KL**, AE Justice, EW Demerath, W-HL Kao, E Boerwinkle, KE North, KL Monda. Influence of physical activity on body mass index in relation to well-replicated obesity loci in African-American adults: The ARIC Study. Presented at the 66<sup>th</sup> Annual Meetings of the American Society of Human Genetics, Boston. 2013
- Young, KL**, AE Justice, WHL Kao, EW Demerath, E Boerwinkle, KE North, KL Monda. Modification by physical activity of body mass index in relation to well-replicated obesity loci: The ARIC Study. Presented at the 53<sup>rd</sup> Annual Meeting of the American Heart Association Epidemiology and Prevention | Nutrition, Physical Activity and Metabolism Scientific Sessions. 2013
- Graff M, KE North, AS Richardson, **KL Young**, KL Mohlke, LA Lange, KM Harris, P Gordon-Larsen. Obesity Susceptibility Loci and Longitudinal BMI from Adolescence to Young Adulthood in an Ethnically Diverse Cohort. *Circulation* 127 (12):AP152. 2013
- Young, KL**, M Graff, KE North, AS Richardson, J Bradfield, S Grant, LA Lange, EM Lange, KM Harris, P Gordon-Larsen. Influence of SNPxSNP interaction on BMI in European American adolescents: Findings from the National Longitudinal Study of Adolescent Health. Presented at the 65<sup>th</sup> Annual Meeting of The American Society of Human Genetics, San Francisco. 2012
- Gordon-Larsen, P, AS Richardson, M Graff, **KL Young**, KL Mohlke, EM Lange, LA Lange, KM Harris, KE North. Established obesity loci and incident severe obesity risk: Findings from the National Longitudinal Study of Adolescent Health. Presented at the 30<sup>th</sup> Annual Meeting of The Obesity Society, San Antonio. 2012
- Young, KL**, M Graff, KE North, A Richardson, KL Mohlke, LA Lange, EM Lange, KM Harris, P Gordon-Larsen. Interaction of smoking and genotype on adolescent BMI: Findings from the National Longitudinal Study of Adolescent Health. Presented at the 30<sup>th</sup> Annual Meeting of The Obesity Society, San Antonio. 2012

- Hester, CM, W Born, **KL Young**, H-W Yeh, A Epp, A James, KA Greiner. Progressing through decisional stages of the Precaution Adoption Process Model with regard to Colon Cancer Screening. Presented at the 33<sup>rd</sup> Annual Meeting of the Society for Behavioral Medicine, New Orleans. 2012
- Lumpkins, CY, P Cupertino, **K Young**, C Daley, H-W Yeh, KA Greiner. Racial/ethnic variations in colorectal cancer screening self-efficacy, CRC fatalism and CRC risk perception in a safety-net clinic population. Presented at the 33<sup>rd</sup> Annual Meeting of the Society for Behavioral Medicine, New Orleans. 2012
- Young, K**, AG Apraiz, G Sun, R Deka, MH Crawford. Paternal genetic history of the Basque population of Spain. Presented at the 80<sup>th</sup> annual meeting of the American Association of Physical Anthropologists, Minnesota. 2011
- Young, K**, AG Apraiz, R Devor, G Sun, R Deka, MH Crawford. The Basques in the genetic landscape of Europe. Presented at the 35<sup>th</sup> annual meeting of the Human Biology Association, New Mexico. 2010
- Young, K**, G Sullivan, C Hester, KA Greiner. Characteristics associated with comprehensive stool analysis findings in adult Integrative Medicine Patients [works in progress]. Presented at 2<sup>nd</sup> annual Sunflower Scholars Symposium, Kansas. 2010
- Young, K**, J Relethford, MH Crawford. The consequence of population loss: Secular trend in height in post-Famine Ireland. Presented at the 1<sup>st</sup> International Conference on Human Migration, Kansas. 2010
- Young, K**, J Relethford, MH Crawford. Social stratification of height in post-famine Ireland (1860-1910). Presented at the 78<sup>th</sup> annual meeting of the American Association of Physical Anthropologists, Illinois. 2009
- Young, K**, AG Apraiz, R Devor, R Rubicz, MH Crawford. Basque Origins: Evidence from mtDNA. Presented at the 32<sup>nd</sup> annual meeting of the Human Biology Association, Pennsylvania. 2007
- Melvin, K**, AG Apraiz, G Sun, R Rubicz, R Deka, MH Crawford. STR variation in four provinces of the Basque country. Presented at the 74<sup>th</sup> annual meeting of the American Association of Physical Anthropologists, Wisconsin. 2005
- Mosher, MJ, A Comuzzie, C Jett, **K Melvin**, R Rubicz, M. Zlojutro, M. Crawford. Evidence for a sex-specific influence of adiponectin on HDL variation: The Kansas Nutrition Project. Presented at the 30<sup>th</sup> annual meeting of the Human Biology Association, Wisconsin. 2005
- Mosher, MJ, **K Melvin**, R Rubicz, M Zlojutro, MH Crawford. Nutrition profiles, serum lipids and cardiovascular disease in the Kansas Mennonites. Presented at the 29<sup>th</sup> annual meeting of the Human Biology Association, Florida. 2004
- Arnaiz-Villena, A, A, J Martinez-Laso, J Masco, G Livshits, J Zamora, E Gomez-Casado, C Silvera-Redondo, **K Melvin**, MH Crawford. HLA Genes in the Chuvashian population from European Russia: Admixture of Central European and Mediterranean populations. Presented at the 28<sup>th</sup> annual meeting of the Human Biology Association, Arizona. 2003
- Arnaiz-Villena, A, J Martinez-Laso, J Moscoso, G Livshits, J Zamora, E Gomez-Casado, E Lowy, C Silvera Redondo, **K Melvin**, JM Martin-Villa, MH Crawford. HLA genes in the Chuvashian region population from European 2003

Russia: Admixture of Central European and Mediterranean populations. Presented at the 17<sup>th</sup> European Histocompatibility Conference, Germany.  
**Melvin, K**, G Livshits, MH Crawford. Genetic diversity among the Chuvash using Randomly Amplified Polymorphic DNA (RAPD) markers. Presented at the 26<sup>th</sup> Annual Meeting of the Human Biology Association, Missouri. 2001

### TEACHING ACTIVITIES

Courses:

*ANTH 315: Human Genetics and Evolution* (Students: 42) 2013

Department of Anthropology

University of North Carolina at Chapel Hill

Guest Lectures:

**Young, K.** Ethical Issues of Genetic Screening. Prepared for EPID 743: Genetic Epidemiology 2015

**Young, K.** Race and Ancestry. Prepared for EPID 743: Genetic Epidemiology 2015

**Young, K, A Justice.** Race and Ancestry. Prepared for EPID 743: Genetic Epidemiology. 2014

**Young, K, A Justice.** Race and Ancestry. Prepared for EPID 743: Genetic Epidemiology. 2013

Graff, M, **K Young, A Justice.** Hardy-Weinberg Equilibrium. Prepared for EPID 743: Genetic Epidemiology. 2013

Professional Presentations:

**Young, KL.** Ethical Issues in Genetic Screening: Informed Consent. Presented at the Carolina Population Center Interdisciplinary Workshop. 2015

**Young, KL.** Influence of Gene-by-Smoking Interaction on Obesity Related Traits: The Giant (Genetic Investigation of ANthropometric Traits) Consortium. Presented at the Carolina Population Center Interdisciplinary Workshop. 2014

**Young, KL.** Ethical Issues in Genetic Screening. Presented at the UNC Cardiovascular Disease Seminar. 2014

**Young, K.** Protecting personally identifiable information in genetic studies. Presented at Genetic Epidemiology Journal Club. 2013

Student Advising:

**Member of Doctoral Committee** 2011

Justice, Anne E. Genetic structure of the Maya in Guatemala: Perspectives on the population history of the Maya using mtDNA and Y-chromosome markers.

### GRANTS

**CTSA KL2 Career Development Award (pending) - PI** July 1, 2015-  
 North Carolina Translational and Clinical Sciences Institute June 30, 2018

Mentors: Kari North, PhD, Karen Mohlke, PhD

Mentoring team: Penny Gordon-Larsen, PhD, Yun-Li, PhD

75% salary plus \$25,000/year for research (Subject to annual review)

**NIH Loan Repayment Program - PI** August 1, 2014 –  
 National Institute on Minority Health and Health Disparities July 31, 2016

\$70,000 loan repayment

**PROFESSIONAL SERVICE**

## Professional Societies:

|  |           |
|--|-----------|
| Outreach Committee, American Association of Anthropological Genetics   | 2014      |
| Election Committee, American Association of Anthropological Genetics   | 2009-2011 |
| Web Designer, <i>Human Biology</i>   | 1997-2000 |
| Web Designer, Department of Anthropology, University of Kansas   | 1996-2001 |
| Web Designer, Laboratory of Biological Anthropology, University of Kansas                                      | 1996-2001 |
| Web Designer, Graduate Students in Anthropology, Department of Anthropology, University of Kansas              | 1996-1998 |
| Student Support Committee, Graduate Students in Anthropology, Department of Anthropology, University of Kansas | 1996-1998 |
| Reviewer:  |           |
| <i>Nature: Scientific Reports</i>  | 2015      |
| <i>Pediatric Obesity</i>   | 2015      |
| <i>Health &amp; Place</i>  | 2014      |
| <i>Human Biology</i>   | 2014      |
| <i>Pacific Symposium on Biocomputing</i>   | 2014      |
| Outreach:  |           |
| UNC Undergraduate Summer Research Symposium Judge  | 2015      |
| DNA Day Ambassador   | 2015      |
| Taught two 10 <sup>th</sup> grade biology classes simple DNA extraction and basics of genomics.                |           |
| School for Creative Studies, Durham, NC  |           |
| DNA Day Ambassador   | 2014      |
| Taught two 9 <sup>th</sup> grade biology classes simple DNA extraction and basics of genomics.                 |           |
| Hillside High School, Durham, NC   |           |
| Gel Electrophoresis Lab  | 2011      |
| Taught high school AP Biology class how to perform agarose gel electrophoresis for analysis of DNA samples.    |           |
| Free State High School, Lawrence, Kansas   |           |
| DNA Extraction/Inheritance Lab   | 2006      |
| Taught two 6 <sup>th</sup> grade classes simple DNA extraction and basics of inheritance.                      |           |
| Woodlawn Elementary School, Lawrence, Kansas   |           |