Megan Michel
419-651-5114 | megan_michel@g.harvard.de

Dept. of Human Evolutionary Biology
Harvard University
Peabody Museum 58H, 11 Divinity Avenue
Cambridge, MA 02138

Dept. of Archaeogenetics
MPI for the Science of Human History
Kahlaische Straße 10
07745 Jena Germany

EDUCATION

Harvard University, Cambridge, MA
Ph.D., Department of Human Evolutionary Biology — 2017-present
M.A., Department of Human Evolutionary Biology — May 2020

Oberlin College, Oberlin, OH
B.A. with Highest Honors, Department of Biology, History Minor — May 2015
Participant in Danenberg Oberlin-in-London Program, Spring 2014
Senior Honors Thesis: "Sperm Pairing in the Gray Short-Tailed Opossum (*Monodelphis domestica*)"

RESEARCH EXPERIENCE

Max Planck Institute for the Science of Human History, Archaeogenetics Dept. — Jena, Germany
PhD Student/Associated Researcher — 2019-present
Advisors: Johannes Krause, Alexander Herbig, Christina Warinner

Harvard Medical School, Department of Genetics, Reich Lab — Boston, MA
Ancient DNA Technician — 2015-2017

Oberlin College, Department of Biology, Garvin Lab — Oberlin, OH
Research Assistant in Disease Ecology — 2015

Boston Children's Hospital, Department of Orthopedic Surgery Research, Warman Lab — Boston, MA
Howard Hughes Medical Institute Exceptional Research Opportunities Program — 2014

Oberlin College, Department of Biology, Cruz Lab — Oberlin, OH
Honors Student Researcher — 2013-2015

Oberlin College, Department of Biology, Tarvin Lab — Oberlin, OH
Field Research Assistant — 2012

TEACHING

Harvard University — ***Cambridge, MA***

Teaching Fellow, Anthropology 1270: Sick: 10,000 Years of Health and Disease — Fall 2020
Developed material for 8 interactive laboratories related to disease in human history;
Taught 2 sections on an online platform; Student Evaluation: 5.0/5.0

Teaching Fellow, Science Life Science 12: Understanding Darwinism — Spring 2018
Student Evaluation: 4.6/5.0

Oberlin College, Oberlin Workshop and Learning Sessions Program — ***Oberlin, OH***

Peer Advisor, Biology 100: Organismal Biology — Fall 2014 & Fall 2012
Designed curriculum-enhancing interactive experiences to facilitate mastery of course material;
Co-Led bi-weekly workshops emphasizing collaborative learning and study skill acquisition

Peer Advisor, Chemistry 102: Chemical Principles — Spring 2013
Co-Led bi-weekly workshops reinforcing course content and study skill acquisition

PEER-REVIEWED PUBLICATIONS

1. Agranat-Tamir, L., C. Waldman, M.A.S. Martin, D. Gokhman, N. Mishol, T. Eshel, O. Cheronet, N. Rohland, S. Mallick, N. Adamski, A.M. Lawson, M. Mah, **M. Michel**, J. Oppenheimer, K. Stewardson, F. Candilio, D. Keating, B. Gamarra, S. Tzur, M. Novak, R. Kalisher, S. Bechar, V. Eshed, D.J. Kennett, M. Faerman, N. Yahalom-Mack, J.M. Monge, Y. Govrin, Y. Erel, B. Yakir, R. Pinhasi, S. Carmi, I. Finkelstein, L. Carmel, and D. Reich. "The Genomic History of the Bronze Age Southern Levant." *Cell* 2020; 181: 1146-1157.

2. Fernandes, D.M., A. Mittnik, I. Olalde, I. Lazaridis, O. Cheronet, N. Rohland, S. Mallick, R. Bernardos, N. Broomandkhoshbacht, J. Carlsson, B.J. Culleton, M. Ferry, B. Gamarra, M. Lari, M. Mah, **M. Michel**, A. Modi, M. Novak, J. Oppenheimer, K.A. Sirak, K. Stewardson, K. Mandl, C. Schattke, K.T. Özdoğan, M. Lucci, G. Gasperetti, F. Candilio, G. Salis, S. Vai, E. Camarós, C. Calò, G. Catalano, M. Cueto, V. Forgia, M. Lozano, E. Marini, M. Micheletti, R.M. Miccichè, M.R. Palombo, D. Ramis, V. Schimmenti, P. Sureda, L. Teira, M. Teschler-Nicola, D.J. Kennett, C. Lalueza-Fox, N. Patterson, L. Sineo, A. Coppa, D. Caramelli, R. Pinhasi, and D. Reich. "The spread of steppe and Iranian-related ancestry in the islands of the western Mediterranean." *Nature Ecology and Evolution* 2020; 4: 334-45.

3. Marcus, J.H., C. Posth, H. Ringbauer, L. Lai, R. Skeates, C. Sidore, J. Beckett, A. Furtwängler, A. Olivieri, C.W.K. Chiang, H. Al-Asadi, K. Dey, T.A. Joseph, C.C. Liu, C. Der Sarkissian, R. Radzevičiūtė, **M. Michel**, M.G. Gradoli, P. Marongiu, S. Rubino, V. Mazzarello, D. Rovina, A. La Fragola, R.M. Serra, P. Bandiera, R. Bianucci, E. Pompianu, C. Murgia, M. Guirguis, R.P. Orguin, N. Tuross, P. van Dommelen, W. Haak, D. Reich, D. Schlessinger, F. Cucca, J. Krause, and J. Novembre. "Genetic history from the Middle Neolithic to present on the Mediterranean island of Sardinia." *Nature Communications* 2020; 11(939).

4. Nakatsuka, N., I. Lazaridis, C. Barbieri, P. Skoglund, N. Rohland, S. Mallick, C. Posth, K. Harkins-Kinkaid, M. Ferry, E. Harney, **M. Michel**, K. Stewardson, J. Novak-Forst, J.M. Capriles, M.A. Durruty, K.A. Alvarez, D. Beresford-Jones, R. Burger, L. Cadwallader, R. Fujita, J. Isla, G. Lau, C.L. muz Aguirre, S. LeBlanc, S. C. Maldonado, F. Meddens, P.G. Messineo, B.J. Culleton, T.K. Harper, J. Quilter, G. Politis, K. Rademaker, M. Reindel, M. Rivera, L. Salazar, J.R. Sandoval, C.M. Santoro, N. Scheifler, V. Standen, M.I. Barreto, I.F. Espinoza, E. Tomasto-Cagigao, G. Valverde, D.J. Kennett, A. Cooper, J. Krause, W. Haak, B. Llamas, D. Reich, and L. Fehren-Schmitz. "A Paleogenomic Reconstruction of the Deep Population History of the Andes." *Cell* 2020; 181: 1131-45.

5. Brace, S., Y. Diekmann, T. Booth, L. van Dorp, Z. Faltyskova, N. Rohland, S. Mallick, I. Olalde, M. Ferry, **M. Michel**, J. Oppenheimer, N. Broomandkhoshbacht, K. Stewardson, R. Martiniano, S. Walsh, M. Kayser, S. Charlton, G. Hellenthal, I. Armit, R. Schulting, O. Craig, A. Sheridan, M. Parker Pearson, C. Stringer, D. Reich, M. Thomas, and I. Barnes. "Ancient genomes indicate population replacement in Early Neolithic Britain." *Nature Ecology & Evolution* 2019; 3: 765-771.

6. Harney, É., A. Nayak, N. Patterson, P. Joglikar, V. Musharif-Tripathy, S. Mallick, N. Rohland, J. Sedig, N. Adamski, R. Bernardos, N. Broomandkhoshbacht, B. Culleton, M. Ferry, T. Harper, **M. Michel**, J. Oppenheimer, K. Stewardson, Z. Zhang, Harashawardhana, M. Bartwal, S. Kumar, S. Chandra Diyundi, P. Roberts, N. Boivin, D. Kennett, K. Thangaraj, D. Reich, and N. Rai. "Ancient DNA from the skeletons of Roopkund Lake reveals Mediterranean migrants in India." Nature Communications 2019; 10(3670).

7. Narasimhan, V., N. Patterson, P. Moorjani, N. Rohland, R. Bernardos, S. Mallick, I. Lazaridis, N. Nakatsuka, I. Olalde, M. Lipson, A. Kim, L. Olivieri, A. Coppa, M. Vidale, J. Mallory, V. Moiseyev, E. Kitov, J. Monge, N. Adamski, N. Alex, N. Broomandkhoshbacht, F. Candilio, K. Callan, O.

Cheronet, B. Culleton, M. Ferry, D. Fernandes, S. Freilich, B. Gamarra, D. Gaudio, M. Hajdinjak, E. Harney, T. Harper, D. Keating, A. Lawson, M. Mah, K. Mandl, **M. Michel**, M. Novak, J. Oppenheimer, N. Rai, K. Sirak, V. Slon, K. Stewardson, F. Zalzala, Z. Zhang, G. Akhatov, A. Bagashev, A. Bagnera, B. Baitanayev, J. Bendezu-Sarmiento, A. Bissembaev, G. L. Bonora, T. Chargynov, T. Chikisheva, P. Dashkovskiy, A. Derevianko, M. Dobeš, K. Douka, N. Dubova, M. Duisengali, D. Enshin, A. Epimakhov, A. Fribus, D. Fullter, A. Goryachev, A. Gromov, S. Grushin, B. Hanks, M. Judd, E. Kazizov, A. Khokhlov, A. Krygin, E. Kupriyanova, P. Kuznetsov, D. Luiselli, F. Maksudov,A. Mamedov, T. Mamirov, C. Meiklejohn, D. Merrett, R. Micheli, O. Mochalov, S. Mustafokulov, A. Nayak, D. Pettner, R. Potts, D. Razhev, M. Rykun, S. Sarno, T. Savenkova, K. Sikhymbaevae, S. Slepchenko, O. Soltobaev, N. Stepanova, S. Svyatko, K. Tabaldiev, M. Teschler-Nicola, A. Tishkin, V. Tkachev, S. Vasilyev, P. Velemínsky, D. Voyakin, A. Yermolayeva, M. Zahir, V. Zubkov, A. Zubkov, V. Shinde, C. Lalueza-Fox, M. Meyer, D. Anthony, N. Boivin, K. Thangaraj, D. Kennet, M. Frachetti, R. Pinhasi, D. Reich. "The formation of human populations in South and Central Asia." *Science* 2019; 365(6457): eaat7487.

8. Shinde, V., V. Narasimhan, N. Rohland, S. Mallick, M. Mah, M. Lipson, N. Nakatsuka, N. Adamski, N. Broomandkhoshbacht, M. Ferry, A.M. Lawson, **M. Michel**, J. Oppenheimer, K. Stewardson, N. Jadhav, J.Y. Kim, M. Chatterjee, A. Munshi, A. Panyam, P. Waghmare, Y. Yadav, H. Patel, A. Kaushik, K. Thangaraj, M. Meyer, N. Patterson, N. Rai, and D. Reich. "An ancient Harappan genome lacks ancestry from Steppe pastoralists or Iranian farmers." *Cell* 2019; 179(3): 729-735.

9. Garvin, M., A. Austin, N. Stracker, S. Slowinski, J. Rutter, M. Butler, **M. Michel**, and R. Whelan. "Attraction of Culex pipiens to uropygial gland secretions does not explain feeding preference for American robins." *Journal of Vector Ecology* 2018; 43(1): 110-116.

10. Lipson, M., O. Cheronet, S. Mallick, N. Rohland, M. Oxenham, M. Pietrusewsky, T. O. Pryce, A. Willis, H. Matsumura, H. Buckley, K. Domett, G. Nguyen, H. Trinh, A. Kyaw, T. Win, B. Pradier, N. Broomandkhoshbacht, F. Candilio, P. Changmai, D. Fernandes, M. Ferry, B. Gamarra, E. Harney, J. Kampuansai, W. Kutanan, **M. Michel**, M. Novak, J. Oppenheimer, K. Sirak, K. Stewardson, Z. Zhang, P. Flegontov, R. Pinhasi, and D. Reich. "Ancient genomes document multiple waves of migration in Southeast Asian prehistory." *Science* 2018; 361(6397): 92-95.

11. Lipson, M., P. Skoglund, M. Spriggs, F. Valentin, S. Bedford, R. Shing, H. Buckley, I. Phillip, G. Ward, S. Mallick, N. Rohland, N. Broomandkhoshbacht, O. Cheronet, M. Ferry, T. Harper, **M. Michel**, J. Oppenheimer, K. Sirak, K. Stewardson, K. Auckland, A. Hill, K. Maitland, J. Oppenheimer, T. Parks, K. Robson, T. Williams, D. Kennett, A. Mentzer, R. Pinhasi, and D. Reich. "Population turnover in remote Oceania shortly after initial settlement." *Current Biology* 2018; 28(7): 1157-1165.

12. Mathieson, I., S. Alpaslan-Roodenberg, C. Posth, A. Szécsényi-Nagy, N. Rohland, S. Mallick, I. Olalde, N. Broomandkhoshbacht, F. Candilio, O. Cheronet, D. Fernandes, M. Ferry, B. Gamarra, G. Fortes, W. Haak, E. Harney, E. Jones, D. Keating, B. Krause-Kyora, I. Kucukkalipci, **M. Michel**, A. Mittnik, K. Nägele, M. Novak, J. Oppenheimer, N. Patterson, S. Pfrengle, K. Sirak, K. Stewardson, S. Vai, S. Alexandrov, K. Alt, R. Andreescu, D. Antonović, A. Ash, N. Atanassova, K. Bacvarov, M. Gusztáv, H. Bocherens, M. Bolus, A. Boroneant, Y. Boyadzhiev, A. Budnik, J. Burmaz, S. Chohadzhiev, N. Conard, R. Cottiaux, M. Čuka, C. Cupillard, D. Drucker, N. Elenski, M. Francken, B. Galabova, G. Ganetsovski, B. Gély, T. Hajdu, V. Handzhyiska, K. Harvati, T. Higham, S. Iliev, I. Janković, I. Karavanić, D. Kennett, D. Komso, A. Kozak, D. Labuda, M. Lari, C. Lazar, M. Leppek, K. Leshtakov, D. Lo Vetro, D. Los, I. Lozanov, M. Malina, F. Martini, K. McSweeney, H. Meller, M. Mendusic, P. Mirea, V. Moiseyev, V. Petrova, T. Price, A. Simalcsik, L. Sineo, M. Slaus, V. Slavchev, P. Stanev, A. Starović, T. Szeniczey, S. Talamo, M. Teschler-Nicola, C. Thevenet, I. Valchev, F. Valentin, S. Vasilyev, F. Veljanovska, S. Venelinova, E. Veselovskaya, B. Viola, C.

Virag, J. Zaninović, S. Zäuner, P. Stockhammer, G. Catalano, R. Krauß, D. Caramelli, G. Zarina, B. Gaydarska, M. Lillie, A. Nikitin, I. Potekhina, A. Papathanasiou, D. Borić, C. Bonsall, J. Krause, R. Pinhasi, and D. Reich. "The genomic history of southeastern Europe." *Nature* 2018; 555(7695): 197-203.

13. **Michel, M.**, D. Konczyk, K. Yeung, R. Murillo, M. Vivero, A. Hall, D. Zurakowski, D. Adams, A. Gupta, A. Huang, B. Chung, and M. Warman. "Causal somatic mutations in urine DNA from persons with the CLOVES subgroup of the PIK3CA-related overgrowth spectrum." *Clinical Genetic* 2018; 93(5): 1075-1080.

14. Olalde, I., S. Brace, M. Allentoft, I. Armit, K. Kristiansen, T. Booth, N. Rohland, S. Mallick, A. Szécsényi-Nagy, A. Mittnik, E. Altena, M. Lipson, I. Lazaridis, T. Harper, N. Patterson, N. Broomandkhoshbacht, Y. Diekmann, Z. Faltyskova, D. Fernandes, M. Ferry, E. Harney, P. de Knijff, **M. Michel**, J. Oppenheimer, K. Stewardson, A. Barclay, K. Alt, C. Liesau, P. Ríos, C. Blasco, J. Miguel, R. García, A. Fernández, E. Bánffy, M. Bernabò-Brea, D. Billoin, C. Bonsall, L. Bonsall, T. Allen, L. Büster, S. Carver, L. Navarro, O. Craig, G. Cook, B. Cunliffe, A. Denaire, K. Dinwiddy, N. Dodwell, M. Ernée, C. Evans, M. Kucharík, J. Farré, C. Fowler, M. Gazenbeek, R. Pena, M. Haber-Uriarte, E. Haduch, G. Hey, N. Jowett, T. Knowles, K. Massy, S. Pfrengle, P. Lefranc, O. Lemercier, A. Lefebvre, C. Martínez, V. Olmo, A. Ramírez, J. Maurandi, T. Majó, J. McKinley, K. McSweeney, B. Mende, A. Modi, G. Kulcsár, V. Kiss, A. Czene, R. Patay, A. Endrodi, K. Köhler, T. Hajdu, T. Szeniczey, J. Dani, Z. Bernert, M. Hoole, O. Cheronet, D. Keating, P. Velemínský, M. Dobes, F. Candilio, F. Brown, R. Fernández, A. Herrero-Corral, S. Tusa, E. Carnieri, L. Lentini, A. Valenti, A. Zanini, C. Waddington, G. Delibes, E. Guerra-Doce, B. Neil, M. Brittain, M. Luke, R. Mortimer, J. Desideri, M. Besse, G. Brücken, M. Furmanek, A. Haluszko, M. Mackiewicz, A. Rapinski, S. Leach, I. Soriano, K. Lillios, J. Cardoso, M. Pearson, P. Wlodarczak, T. Price, P. Prieto, P. Rey, R. Risch, M. Rojo Guerra, A. Schmitt, J. Serralongue, A. Silva, V. Smrcka, L. Vergnaud, J. Zilhão, D. Caramelli, T. Higham, M. Thomas, D. Kennett, H. Fokkens, V. Heyd, A. Sheridan, K. Sjögren, P. Stockhammer, J. Krause, R. Pinhasi, W. Haak, I. Barnes, C. Lalueza-Fox, and D. Reich. "The Beaker phenomenon and the genomic transformation of northwest Europe." *Nature* 2018; 555(7695): 190-196.

15. Posth, C., N. Nakatsuka, I. Lazaridis, P. Skoglund, S. Mallick, T. Lamnidis, N. Rohland, K. Nägele, N. Adamski, E. Bertolini, N. Broomandkhoshbacht, A. Cooper, B. Culleton, T. Ferraz, M. Ferry, A. Furtwängler, W. Haak, K. Harkins, T. Harper, T. Hünemeier, A.M. Lawson, B. Llamas, **M. Michel**, E. Nelson, J. Oppenheimer, N. Patterson, S. Schiffels, J. Sedig, K. Stewardson, S. Talamo, C. Wang, J. Hublin, M. Hubbe, K. Harvati, A. Delaunay, J. Beier, M. Francken, P. Kaulicke, H. Reyes-Centeno, K. Rademaker, W. Trask, M. Robinson, S. Gutierrez, K. Prufer, D. Salazar-Garcia, E. Chim, L. Gomes, M. Alves, A. Liryo, M. Inglez, R. Oliveira, D. Bernardo, A. Barioni, V. Wesolowski, N. Scheifler, M. Rivera, C. Plens, P. Messineo, L. Figuti , D. Corach, C. Scabuzzo, S. Eggers, P. DeBlasis, M. Reindel, C. Méndez, G. Politis, E. Tomasto-Cagigao, D. Kennett, A. Strauss, L. Fehren-Schmitz, J. Krause, and D. Reich. "Reconstructing the deep population history of Central and South America." *Cell* 2018; 175(5): 1185-1197.

16. Lipson, M., A. Szécsényi-Nagy, S. Mallick, A. Pósa, B. Stégmár, V. Keerl, N. Rohland, K. Stewardson, M. Ferry, **M. Michel**, J. Oppenheimer, N. Broomandkhoshbacht, E. Harney, S. Nordenfelt, B. Llamas, B. Gusztáv Mende, K. Köhler, K. Oross, M. Bondár, T. Marton, A. Osztás, J. Jakucs, T. Paluch, F. Horváth, P. Csengeri, J. Koós, K. Sebök, A. Anders, P. Raczky, J. Regenye, J. Barna, S. Fábián, G. Serlegi, Z. Toldi, E. Gyöngyvér Nagy, J. Dani, E. Molnár, G. Pálfi, L. Márk, B. Melegh, Z. Bánfai, L. Domboróczki, J. Fernández-Eraso, J. Antonio Mujika-Alustiza, C. Alonso Fernández, J. Jiménez Echevarría, R. Bollongino, J. Orschiedt, K. Schierhold, H. Meller, A. Cooper, J. Burger, E. Bánffy, K. Alt, C. Lalueza-Fox, W. Haak, and D. Reich. "Parallel palaeogenomic transects reveal complex genetic history of early European farmers." *Nature* 2017; 551(7680): 368-372.

17. Skoglund, P., J. Thompson, M. Prendergast, A. Mittnik, K. Sirak, M. Hajdinjak, T. Salie, N. Rohland, S. Mallick, A. Peltzer, A. Heinze, I. Olalde, M. Ferry, E. Harney, **M. Michel**, K. Stewardson, J. Cerezo-Roman, C. Chiumia, A. Crowther, E. Gomani-Chindebvu, A. Gidna, K. Grillo, I. Helenius, G. Hellenthal, R. Helm, M. Horton, S. López, A. Mabulla, J. Parkington, C. Shipton, M. Thomas, R. Tibesasa, M. Welling, V. Hayes, D. Kennett, R. Ramesar, M. Meyer, S. Pääbo, N. Patterson, A. Morris, N. Boivin, R. Pinhasi, J. Krause, and D. Reich. "Reconstructing prehistoric African population structure." *Cell* 2017; 171(1): 59-71.

CONFERENCES, SYMPOSIA, AND INVITED PRESENTATIONS

1. **Michel, M.** "Oral Histories: Ancient Genomic Analysis of the Caries-Associated Bacterium *Streptococcus mutans*." Presented at From Homer to History with the Max Planck-Harvard Research Center: Recent Results from Bronze Age Investigations, Harvard, MA, Nov. 2019. [*invited*]
2. **Michel, M**., C. Posth, A. Herbig, N. Tuross, and J. Krause. "Pathogens in the Ancient Mediterranean: *Salmonella* and *Streptococcus*." Poster presented at the 8th International Symposium on Biomolecular Archaeology, Jena, Germany, Sept. 2018.
3. **Michel, M**. "Ancient DNA on the Silk Road: Sampling, Processing, and Prospects." Presented at the Young Investigator Symposium, Harvard University, Cambridge, MA, Oct. 2016.
4. **Michel, M**. "Sperm Pairing in the Gray Short-Tailed Opossum (*Monodelphis domestica*)." Presented at the Oberlin College Senior Symposium, Oberlin, OH, May 2015.
5. **Michel, M**., R. Murillo, M. Vivero, A. Hall, D. Zurakowski, and M. Warman. "Detection of PIK3CA Mutations in the Urine of Overgrowth Patients Using Droplet Digital PCR." Poster presented at the Harvard Integrated Life Sciences Summer Intern Poster Session, Boston, MA, Aug. 2014.

OUTREACH

Science Education Partner, Harvard Museums of Science and Culture, Harvard University, Cambridge, MA (2019)- designed and implemented interactive activities for communicating my research to museum visitors

Participant in the Long Night of Science, Max Planck Institute for the Science of Human History, Jena, Germany (2019)

"I Heart Science" Festival Participant, Harvard Museums of Science and Culture, Harvard University, Cambridge, MA (2018)

Fifth Grade Science Classroom Volunteer, Hillsdale Middle School, Jeromesville, OH (2014)

ACADEMIC SERVICE

Co-Chair of the Outreach Working Group, Diversity and Inclusion Task Force, Department of Human Evolutionary Biology, Harvard University, Cambridge, MA (2020-present)

Co-Chair of the Young Investigator Symposium, Max Planck-Harvard Research Center for the Archaeoscience of the Ancient Mediterranean, Cambridge, MA (2018, 2019, 2020)

Organized First Annual Departmental Open House, Department of Human Evolutionary Biology, Harvard University- targeted prospective graduate students from groups traditionally underrepresented in the sciences, attendance of over 100 prospective students on virtual platform (2020)

GRANTS, HONORS, AND AWARDS

2019	Frederick Sheldon Traveling Fellowship, Harvard Committee on General Scholarship, Harvard University

2018	Certificate of Distinction in Teaching for serving as a Teaching Fellow in SLS 12: Understanding Darwinism
2017	Max Planck-Harvard Research Center for the Archaeoscience of the Ancient Mediterranean Fellowship
2015	Highest Honors in Biology, Oberlin College
2015	Elected to Sigma Xi
2014	Barry M. Goldwater Scholarship Winner
2014	Marshall Scholarship Finalist
2014	Howard Hughes Medical Institute (HHMI), Exceptional Research Opportunities Program at Harvard Medical School and Boston Children's Hospital
2014	Danenberg Endowment Grant, Danenberg Oberlin-in-London Grant, Oberlin College
2014	Joshua Levitt Memorial Prize in Biology, Oberlin College
2013	US-UK Fulbright Commission Fellowship, Durham University Summer Institute: The Northern Borders of Empire to the Making of the Middle Ages
2013	Frank Fanning Jewett Prize for promising second year students in chemistry and biochemistry, Oberlin College
2012	CRC Press Chemistry Achievement Award for high-achieving first year chemistry students, Oberlin College
2011- 2014	National Merit Scholarship
2011- 2014	John Frederick Oberlin Scholarship