# **CURRICULUM VITAE** Mike Zhongyu He

# **PERSONAL DATA**

Department of Environmental Medicine and Public Health Icahn School of Medicine at Mount Sinai One Gustave L. Levy Place, Box 1057 New York, NY 10029-6574

(909) 569-8073

Email: mike.he@mssm.edu Website: https://mikezhe.com

Teaching Portfolio: https://blogs.cuit.columbia.edu/zh2263/

| EDUCATION<br>2020/Present | Icahn School of Medicine at Mount Sinai, New York, New York  Postdoctoral Fellow, Environmental Medicine and Public Health  Advisors: Drs. Itai Kloog, Maayan Yitshak-Sade, and Robert Wright   |
|---------------------------|---|
| 2015/2020                 | Columbia University, New York, New York  Doctor of Philosophy, Environmental Health Sciences  Columbia Climate and Health Program  Advisors: Drs. Marianthi-Anna Kioumourtzoglou and Patrick L. Kinney  Dissertation title: Air pollution and adverse health effects: Assessing  exposure windows and sensitivity to modeling choices |
| 2015/2018                 | Columbia University, New York, New York  Master of Philosophy, Environmental Health Sciences  |
| 2014/2015                 | Johns Hopkins University, Baltimore, Maryland Graduate Certificate, Risk Sciences and Public Policy   |
| 2014/2015                 | Johns Hopkins University, Baltimore, Maryland  Master of Health Science, Environmental Health Sciences  Advisor: Dr. Ana Navas-Acien  |
| 2013/2013                 | Johns Hopkins University, Baltimore, Maryland Certificate, Advanced Health Sciences Chinese   |
| 2010/2014                 | Johns Hopkins University, Baltimore, Maryland  Bachelor of Arts with Honors   |

Majors: Public Health Studies/Earth & Planetary Sciences Minors: Music/Global Environmental Change & Sustainability

#### **HONORS AND AWARDS**

| 2015 | Induction | to the | Delta | Omega | Honorary | Society, | Alpha | Chapter, | Johns |
|------|-----------|--------|-------|-------|----------|----------|-------|----------|-------|
|      |           |        |       |       |          |          |       |          |       |

Hopkins Bloomberg School of Public Health

2015 Recipient of the AAAS/Science Program for Excellence in Science,

American Association for the Advancement of Science

**FUNDING** 

2020 Registration Award, 32<sup>nd</sup> Annual Conference of the International Society

for Environmental Epidemiology

2019 Student Conference and Leadership Experience Award (\$800), Columbia

Mailman School of Public Health

2019 HAQAST5 Travel Award (\$1,500), NASA Health and Air Quality Applied

Sciences Team Meeting

2018 Teaching Observation Fellowship (\$2,000), Center for Teaching and

Learning, Columbia University

2018 Student Conference Travel Award (\$900), Columbia Mailman School of

Public Health

2018 Ruth L. Kirschstein National Research Service Award (F31; \$60,272),

National Institute of Environmental Health Sciences

Title: Assessing Current and Future Health Impacts of Fine Particulate

Matter in China and the United States

2017/2019 Sasakawa Young Leaders Fellowship (\$3,750), The Ryoichi Sasakawa

Young Leaders Fellowship Fund

2016 Weatherhead Fellowship (\$1,500), Weatherhead East Asian Institute,

Columbia University

2011/2014 Bloomberg Scholarship (\$117,550), Johns Hopkins University

# **PUBLICATIONS**

Peer-Reviewed Research Articles

20. Ma R, Ban J, Wang Q, Zhang Y, Yang Y, He MZ, Li S, Li S, Shi W, Li T: Random Forest Model based Fine Scale Spatiotemporal O<sub>3</sub> Trends in the Beijing-Tianjin-Hebei region in China, 2010 to 2017. Environmental Pollution 116635. **2021**.

- 19. Liu S, Xing J, Westervelt DM, Liu S, Ding D, Fiore AM, Kinney PL, Zhang Y, **He MZ**, Zhang H, Sahu SK, Zhang F, Zhao B, Wang S: Role of emission controls in reducing the 2050 climate change penalty for PM<sub>2.5</sub> in China. Science of the Total Environment 765: 144338. **2021**.
- 18. Sun Z, Chen C, Yan M, Shi W, Wang J, Ban J, Sun Q, **He MZ**, Li T: Heat wave characteristics, mortality and effect modification by temperature zones: a time-series study in 130 counties of China. <u>International Journal of Epidemiology</u>. **2020**.
- 17. Fang X, Liu W, Ai J, **He M**, Wu Y, Shi Y, Shen W, Bao C: Forecasting incidence of infectious diarrhea using random forest in Jiangsu Province, China. <u>BMC Infectious Diseases</u> 20:222. **2020**.
- 16. **He MZ**, Kinney PL, Li T, Chen C, Sun Q, Ban J, Wang J, Liu S, Goldsmith J, M-A Kioumourtzoglou: Short- and intermediate-term exposure NO<sub>2</sub> and mortality: A multi-county analysis in China. <u>Environmental Pollution</u> 261: 114165. **2020**.
- 15. Zhang Y, Li T, Ma R, Yin Z, Wang J, He MZ, Xu D, Gao X, Wang Q, Kraus VB, Lv Y, Zhong Y, Kinney PL, Shi X: Long-term exposure to ambient fine particulate matter and fasting blood glucose level in a Chinese elderly cohort. <u>Science of the Total Environment</u> 717: 137191. 2020.
- 14. Chen C, Li T, Wang L, Qi J, Shi W, **He MZ**, Sun Q, Wang J, Zhu H, Shi X: Short-term Exposure to Fine Particles and Risk of Cause-Specific Mortality China, 2013-2018. China CDC Weekly 1(1): 8-12. **2019**.
- 13. Jin X, Fiore AM, Civerolo K, Bi J, Liu Y, van Donkelaar A, Martin RV, Al-Hamdan M, Zhang Y, Insaf TZ, Kioumourtzoglou M-A, **He MZ**, Kinney PL: Comparison of multiple PM<sub>2.5</sub> exposure products for estimating health benefits of emission controls over New York State, USA. <u>Environ</u> Res Lett 14 084023. **2019**.
- 12. Westervelt DM, Ma C, **He MZ**, Fiore AM, Kinney PL, Kioumourtzoglou M-A, Wang S, Xing J, Ding D, Correa G: Mid-21<sup>st</sup> century ozone air quality and health burden in China under emissions scenarios and climate change. <u>Environ Res Lett</u> 14 074030. **2019**.
- 11. Yang Y, **He MZ**, Li T, Yang X: MRI combined with PET-CT of different tracers to improve the accuracy of glioma diagnosis: a systematic review and meta-analysis. <u>Neurosurg Rev</u> 42: 185-195. **2019**.
- 10. Li T, Guo Y, Liu Y, Wang J, Wang Q, Sun Z, **He MZ**, Shi X: Estimating mortality burden attributable to short-term PM<sub>2.5</sub> exposure: A national observational study in China. <u>Environment International</u> 125: 245-251. **2019**.
- 9. Chen C, Xu D, **He MZ**, Wang Y, Du Z, Du Y, Qian Y, Ji D, Li T: Fine particulate constituents and mortality: a time-series study in Beijing, China. <u>Environ Sci Technol</u> 52, 11378-11386. **2018**.
- 8. Zhang Y, Cui L, Xu D, **He MZ**, Zhou J, Han L, Li X, Li T: The association of ambient PM<sub>2.5</sub> with school absence and symptoms in schoolchildren: a panel study. <u>Pediatric Research</u> 84: 28-33. **2018**.
- 7. Sun Q, Wang W, Chen C, Ban J, Xu D, Zhu P, **He MZ**, Li T: Acute effect of multiple ozone metrics on mortality by season in 34 Chinese counties, 2013-2015. <u>Journal of Internal Medicine</u> 283 (5), 481-488. **2018**.
- 6. Wang Q, Wang J, **He MZ**, Kinney PL, Li T: A county-level estimate of PM<sub>2.5</sub> related chronic mortality risk in China based on multi-model exposure data. <u>Environment International</u> 110: 105-112. **2018**.

- 5. Liu W, **He MZ**, Wang Y, Wang Y, Zhou Y, Wu M, Tang Z, Dai Y, Yuan B, Zhen S, Cheskin LJ: Differences in health-related behaviors between middle school, high school, and college students in Jiangsu province, China. Asia Pacific J Clin Nutr 26(4): 731-737, **2017**.
- 4. Ban J, Xu D, **He MZ**, Sun Q, Chen C, Wang W, Zhu P, Li T: The effect of high temperature on cause-specific mortality: A multi-county analysis in China. <u>Environment International</u> 106: 19-26. **2017**.
- 3. **He MZ**, Zeng X, Zhang K, Kinney PL: Fine Particulate Matter Concentrations in Urban Chinese Cities, 2005-2016: A Systematic Review. <u>Int J Environ Res Public Health</u> 14(2), 191. **2017**.
- 2. Ban J, Huang L, Chen C, Guo Y, **He MZ**, Li T: Integrating new indicators of predictors that shape the public's perception of local extreme temperature in China. <u>Science of the Total Environment</u> 579: 529-536. **2017**.
- 1. Achey MA, **He MZ**, Akst LM: Vocal Hygiene Habits and Vocal Handicap Among Conservatory Students of Classical Singing. <u>J of Voice</u> 30(2): 192-197, **2016.**

#### Other Publications

- 2. **He MZ**: Singing for science. Science 364 (6439), 506, **2019**.
- 1. **He MZ**: China's Health Care System: A Summer Experience. <u>Epidemic Proportions</u> 11: 34-35, **2014.**

#### **CONFERENCE PRESENTATIONS AND POSTERS**

- 19. **He MZ**, Kinney PL, Fiore AM, Do V, Jin X, Liu S, DeFelice N, Bi J, Liu Y, Insaf T, Kioumourtzoglou M-A: Short-term PM<sub>2.5</sub> and cardiovascular admissions in NY State: assessing sensitivity to exposure model choice. Oral Presentation. American Geophysical Union 2020 Fall Meeting (online). December **2020**.
- 18. Zhang L, **He MZ**, Perera F, Lovasi G, Clougherty J, Carrión D, Burke K, Kioumourtzoglou M-A: Evaluating the impact of the Clean Heat Program on air pollution levels in New York City. Poster Presentation. International Society for Environmental Epidemiology 2020 Conference (online). August **2020**.
- 17. **He MZ**, Kioumourtzoglou M-A, Kinney PL, Fiore A, Jin X, Do V, Liu S, Insaf T, Michalski A: Fine particulate matter and cardiovascular admissions in NY State: an assessment of exposure model choice sensitivity and spatial-temporal effect modification. Oral Presentation. New Applications in the Use of Satellite Data Monitoring for Population Health. Huntsville, Alabama. October **2019**.
- 16. **He MZ**, Do V, Liu S, Kinney PL, Fiore A, Jin X, DeFelice N, Kioumourtzoglou M-A: Short-term PM<sub>2.5</sub> and cardiovascular admissions in NY State: assessing sensitivity of exposure model choice. Oral Presentation. International Society for Environmental Epidemiology 2019 Conference, Utrecht, Netherlands. August **2019**.
- 15. **He MZ**, Kioumourtzoglou M-A, Kinney PL, Fiore A, Jin X, Do V, Liu S, Insaf T, Michalski A: Fine particulate matter and respiratory admissions: an assessment of short-term exposure model choice sensitivity for health studies. Oral Presentation. NASA Health and Air Quality Applied Sciences Team 6<sup>th</sup> Biannual Meeting, Pasadena, California. July **2019**.

- 14. Jin X, Fiore AM, Civerolo K, Johnson S, Bi J, Liu Y, van Donkelaar A, Martin R, Al-Hamdan M, Zhang Y, Insaf T, Kioumourtzoglou M-A, **He MZ**, Kinney P: Quantifying health benefits of emission reduction over New York State using multiple PM<sub>2.5</sub> products. Oral Presentation. New York State Energy Research and Development Authority Energy-Related Air Quality and Health Effects Workshop. Albany, New York. April **2019**.
- 13. **He MZ**, Kioumourtzoglou M-A, Kinney PL, Fiore A, Jin X, Do V, Liu S, Insaf T, Michalski A: Short-Term PM<sub>2.5</sub> and Cardiovascular Admissions in NY State: Assessing Sensitivity of Exposure Model Choice. Oral Presentation. NASA Health and Air Quality Applied Sciences Team 5<sup>th</sup> Biannual Meeting, Phoenix, Arizona. January **2019**.
- 12. Jin X, Fiore A, Civerolo K, Johnson S, Bi J, Liu Y, Martin R, van Donkelaar A, Zhang Y, Kinney PL, Kioumourtzoglou M-A, **He MZ**: Quantifying health benefits of emission reduction over New York State using multiple PM<sub>2.5</sub> products. Oral Presentation. NASA Health and Air Quality Applied Sciences Team 5<sup>th</sup> Biannual Meeting, Phoenix, Arizona. January **2019**.
- 11. Westervelt D, Ma CT, Fiore AM, Kinney PL, **He MZ**, Xing J, Wang S: The impact of emissions scenarios and climate change over China on ozone air quality in China and the United States. Oral Presentation. American Geophysical Union 2016 Fall Meeting, Washington DC. December **2018**.
- He MZ, Li T, Kinney PL, Chen C, Sun Q, Ban J, Wang J, Liu S, Goldsmith J, Kioumourtzoglou M-A: Short- and Intermediate-Term Exposure to NO<sub>2</sub> and Mortality: A Multi-County Analysis. Oral Presentation. Columbia University Air Pollution Extremes Workshop, New York, New York. November 2018.
- Du Z, He MZ, Ban J, Wang Q, Li T. The Research on National Heat Vulnerability Assessment of China. Poster Presentation. International Society for Environmental Epidemiology-Exposure Sciences 2018 Conference, Ottawa, Canada. August 2018.
- 8. **He MZ**, Li T, Kinney PL, Kioumourtzoglou M-A: Short- and Intermediate-Term Exposure to NO<sub>2</sub> and Mortality in 42 Chinese Counties. Poster Presentation. International Society for Environmental Epidemiology-Exposure Sciences Asia Chapter 2018 Conference, Taipei, Taiwan. June **2018**.
- 7. Ma C, Westervelt D, Fiore A, Kinney PL, **He MZ**, Rieder H, Wang S, Correa G: Impact of Future Emissions and Climate Change on Surface Ozone over China. Oral Presentation. American Geophysical Union 2017 Fall Meeting, New Orleans, Louisiana. December **2017**.
- 6. Jin X, Fiore A, Civerolo K, Ku M, Insaf T, Kinney PL, Kioumourtzoglou M-A, He MZ, Curci G, Lyapustin A, Wang Y, Martin R, van Donkelaar A: Combining satellite data and CMAQ model to map PM<sub>2.5</sub> exposure over the Northeast U.S.A. Oral Presentation. NASA Health and Air Quality Applied Sciences Team 3<sup>rd</sup> Annual Meeting, Palisades, New York. November 2017.
- 5. **He MZ**, Kioumourtzoglou M-A, Kinney PL, Fiore A, Jin X, Insaf T, Michalski A: Associations between Air Pollution and Hospital Admissions in New York State. Oral Presentation. NASA Health and Air Quality Applied Sciences Team 3<sup>rd</sup> Biannual Meeting, Palisades, New York. November **2017**.
- 4. Wang Q, Wang J, **He MZ**, Kinney PL, Li T: A county-level estimate of PM<sub>2.5</sub> related chronic mortality risk in China based on multi-model exposure data. Oral Presentation. International Society for Environmental Epidemiology 2017 Conference, Sydney, Australia. September **2017**.

- 3. **He MZ**, Li T, Kinney PL, Kioumourtzoglou M-A: Short- and Intermediate-Term Exposure to NO<sub>2</sub> and Mortality: A Multi-County Analysis in China. Poster Presentation. International Society for Environmental Epidemiology 2017 Conference, Sydney, Australia. September **2017**.
- 2. **He MZ**, Zeng X, Zhang K, Kinney PL: Regional Differences in Fine Particulate Matter Concentrations in Urban Chinese Cities: A Systematic Review. Oral Presentation. 2016 Symposium on Public Health in Asia, Baltimore, Maryland. February **2016**.
- Meyer-Fong T, Johnson Y, He MZ, Meyer C: Language Study and Research on Public Health in Asia. Oral Presentation. 2015 Symposium on Public Health in Asia, Baltimore, Maryland, February 2015.

#### **SOCIETY MEMBERSHIP**

2020/Present American Geophysical Union

2017/Present International Society for Environmental Epidemiology

2015/Present American Association for the Advancement of Science

2015/Present Delta Omega Honor Society, Alpha Chapter

2014/Present Sigma Gamma Epsilon Honor Society, Alpha Kappa Chapter

**LEADERSHIP** 

2021/Present Committee Member, Student/Trainee Learning Environment Committee,

Icahn School of Medicine at Mount Sinai

2021/Present Department Representative, Postdoctoral Executive Committee, Icahn

School of Medicine at Mount Sinai

2019/2020 Vice President of Administration, University PhD Council, Columbia

University

2018/2019 School Representative, University PhD Council, Columbia University

2016/2018 Department Representative, Graduate Student Advisory Council,

Columbia University

### **INVITED PRESENTATIONS**

May 2020 Evaluating the Impact of the Clean Heat Program on Air Pollution Levels in New York

City, EHS Department Seminar, Columbia Mailman School of Public Health, New York,

New York (Host: Joseph Graziano)

| Apr 2020 | Applying to PhD & Doctoral Programs, Office of Career Services, Columbia University Mailman School of Public Health, New York, New York (Host: Heather Krasna)  |
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| Jul 2019 | Five Ways of Telling the Same Story: Assessing Sensitivity of Exposure Model Choice in Air Pollution Studies, Chinese Center for Disease Control and Prevention, Beijing, China (Host: Tiantian Li)                             |
| Apr 2019 | Five Ways of Telling the Same Story: Assessing Sensitivity of Exposure Model Choice in Air Pollution Studies, EHS Department Seminar, Columbia Mailman School of Public Health, New York, New York (Host: Joseph Graziano)      |
| Nov 2018 | Climate Change and Health, Workshop for the Johns Hopkins Center for Talented Youth, New York, New York (Host: Gail Garbowski)  |
| Jul 2018 | Facts and Alternative Facts: Approaches to Communicating Climate Change, Chinese Center for Disease Control and Prevention, Beijing, China (Host: Tiantian Li)  |
| Mar 2018 | Air Pollution, Climate Change, and Health in China: A Multi-County Study, EHS Department Seminar, Columbia Mailman School of Public Health, New York, New York (Host: Joseph Graziano)  |
| Nov 2017 | Climate Change and Health, Workshop for the Johns Hopkins Center for Talented Youth, New York, New York (Host: Gail Garbowski)  |
| Sep 2017 | A Brief Introduction to Missing Data, Chinese Center for Disease Control and Prevention, Beijing, China (Host: Tiantian Li)   |
| Sep 2017 | Directed Acyclic Graphs as a Tool for Epidemiology, Chinese Center for Disease Control and Prevention, Beijing, China (Host: Tiantian Li)   |
| Mar 2017 | Air Pollution, Classical Music, and Everything in Between, EHS Department Seminar, Columbia Mailman School of Public Health, New York, New York (Host: Joseph Graziano)   |
| Jul 2016 | The Effects of Air Purifiers and Education on the Jinan Children's Cohort: Preliminary Study Design, Chinese Center for Disease Control and Prevention Workshop on Air Pollution and Health, Beijing, China (Host: Tiantian Li) |
| Jul 2016 | A Tale of Two Disciplines: Public Health in Classical Music, Chinese Center for Disease Control and Prevention, Beijing, China (Host: Tiantian Li)  |

| Jun 2016 | Fine Particulate Matter Concentrations in Six Regions of China: A Systematic Review and Evaluation of Satellite-Derived Data, Chinese Center for Disease Control and Prevention, Beijing, China (Host: Tiantian Li)       |
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| Apr 2016 | Environment and Health Connections: Stories from the Deep Interior to the Ends of the Earth, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland (Host: Ruth Quinn)                                      |
| Apr 2016 | Regional Differences in Fine Particulate Matter Concentrations in Urban Chinese Cities: A Systematic Review, EHS Department Seminar, Columbia Mailman School of Public Health, New York, New York (Host: Joseph Graziano) |
| Aug 2015 | Systematic Review and Meta-Analysis: The Basics, Jiangsu Provincial Center for Disease Control and Prevention, Nanjing, China (Host: Shiqi Zhen)  |
| Jul 2015 | Presenter, <i>Model Selection in Biostatistics: Techniques and Application</i> , Jiangsu Provincial Center for Disease Control and Prevention, Nanjing, China (Host: Shiqi Zhen)  |

# **PROFESSIONAL SERVICE**

Journal Referee

Applied Economics, Applied Sciences, Atmosphere, BMC Public Health, Chemosphere, Environmental Health, Environmental Pollution, Environmental Research, Environmental Research Communications, Environmental Research Letters, Environmental Science & Technology, GeoHealth, International Journal of Environmental Research and Public Health, Journal of Environmental Management, Mathematics, PeerJ, Science of the Total Environment, Sustainability, The Innovation, The Lancet Planetary Health, Urban Climate, Urban Science, Vaccines, and Viruses

#### Conference Abstract Reviewer

| 2021 | International Society for Environmental Epidemiology 2021 Conference       |
|------|--|
| 2020 | International Society for Environmental Epidemiology 2020 Conference       |
| 2019 | Applications in the Use of Satellite Data Monitoring for Population Health |
| 2019 | International Society for Environmental Epidemiology 2019 Conference       |

2018/2019 Co-organizer, Columbia Climate and Health Seminar Series (13 seminars)

### **TEACHING**

Columbia University

2019 Teaching Scholar, Atmospheric and Climate Science for Public Health,

P8301

2017/2019 Teaching Scholar, Public Health Impacts of Climate Change (3x), P8304

Johns Hopkins University

2015 Teaching Assistant, Statistical Methods in Public Health IV, PH.140.624

| 2015                       |                 | Teaching Assistant, Statistical Methods in Public Health III, PH.140.623   |
|----------------------------|-----------------|--|
| 2015                       |                 | Teaching Assistant, Introduction to the Risk Sciences, PH.317.600  |
| 2014                       |                 | Teaching Assistant, Statistical Methods in Public Health II, PH.140.622  |
| 2014                       |                 | Teaching Assistant, Statistical Methods in Public Health I, PH.140.621   |
| 2014                       |                 | Course Designated Tutor, Fundamentals of Epidemiology, AS.280.350  |
| 2014                       |                 | Course Mentor, General Biology II, AS.020.152  |
| 2013/2014                  |                 | Teaching Assistant, Probability and Statistics for the Life Sciences (2x), EN.550.211  |
| 2013                       |                 | Teaching Assistant, Statistical Analysis I, EN.550.111   |
| 2013                       |                 | Course Mentor, General Biology I, AS.020.151   |
| 2013                       |                 | Teaching Assistant, General Biology Lab I, AS.020.153  |
| 2012/2014                  |                 | Teaching Assistant, Public Health Biostatistics (3x), AS.280.345   |
| Certifications<br>2020     |                 | Teaching Development Program (Advanced Track), Columbia Center for Teaching and Learning   |
| 2019                       |                 | Teaching Observation Fellowship, Columbia Center for Teaching and Learning   |
| 2018                       |                 | Innovative Teaching Summer Institute, Columbia Center for Teaching and Learning  |
| 2018                       |                 | Reflective Teaching Seminar, Columbia Center for Teaching and Learning   |
| Guest Lectures<br>Mar 2021 | A Brief History | of Air Pollution and Health, Epidemiology II: Epidemiologic Methods and School of Medicine at Mount Sinai, New York, New York (Host: Maayan      |
| Feb 2020                   |                 | dealth, and Climate Change, Public Health Impacts of Climate Change bia University Mailman School of Public Health, New York, New York Martinez) |

| Oct 2019 | A Brief History of Air Pollution and Health, Atmospheric and Climate Science for Public Health Course, Columbia University Mailman School of Public Health, New York, New York (Host: Jeffrey Shaman) |
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| Apr 2019 | Air Pollution and Climate Change: A Public Health Perspective, Introduction to Atmospheric Chemistry Course, Columbia University, New York, New York (Host: Arlene Fiore)                             |
| Feb 2019 | Air Pollution, Health, and Climate Change, Public Health Impacts of Climate Change Course, Columbia University Mailman School of Public Health, New York, New York (Host: Micaela Martinez)           |
| Jan 2019 | Air Pollution and Health in 2018: Case-Studies from China and the United States, Diamond Bar High School, Diamond Bar, California (Host: Angela Jensvold)   |
| Mar 2018 | Air Pollution, Health, and Climate Change, Public Health Impacts of Climate Change Course, Columbia University Mailman School of Public Health, New York, New York (Host: Jeffrey Shaman)             |
| Mar 2017 | Air Pollution, Health, and Climate Change, Public Health Impacts of Climate Change Course, Columbia University Mailman School of Public Health, New York, New York (Host: Jeffrey Shaman)             |
| Jan 2017 | The Physics of Climate Change, Diamond Bar High School, Diamond Bar, California (Host: Angela Jensvold)   |
| Jan 2017 | Air Pollution and Particulate Matter: Concepts and Recent Developments, Diamond Bar High School, Diamond Bar, California (Host: Angela Jensvold)  |
| Jan 2016 | <i>PM</i> <sub>2.5</sub> : Overview and Case Study, Diamond Bar High School, Diamond Bar, California (Host: Angela Jensvold)  |
| Jan 2015 | Environmental Health and Air Pollution, Diamond Bar High School, Diamond Bar, California (Host: David Hong)   |