CURRICULUM VITAE Mike Zhongyu He

PERSONAL DATA

17 East 102nd Street Third Floor West Building New York, NY 10029 (909) 569-8073

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

EDUCATION	ED	UC	ΑT	10	N
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2020/Present Icahn School of Medicine at Mount Sinai, New York, New York

Postdoctoral Fellow, Environmental Medicine and Public Health

Advisors: Drs. Itai Kloog and Maayan Yitshak-sade

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

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 A	AWARDS
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2015	Induction to the Delta Omega Honorary Society, Alpha Chapter, Johns
	Hanking Plaambarg School of Public Haalth

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 Travel Award (Registration Fee Waiver), 32nd 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

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. International Journal of Epidemiology. **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 NO₂ 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_{2.5} exposure products for estimating health benefits of emission controls over New York State, USA. <u>Environ Res Lett</u> 14 084023. **2019**.
- Westervelt DM, Ma C, He MZ, Fiore AM, Kinney PL, Kioumourtzoglou M-A, Wang S, Xing J, Ding D, Correa G: Mid-21st 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_{2.5} 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_{2.5} 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**.
- Wang Q, Wang J, He MZ, Kinney PL, Li T: A county-level estimate of PM_{2.5} 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. <u>Asia Pacific J Clin Nutr</u> 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. Int J Environ Res Public Health 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.**

Commentaries (Non-Scientific)

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

CONFERENCE PRESENTATIONS AND POSTERS

- 19. (Accepted) **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_{2.5} 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_{2.5} 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 6th 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_{2.5} 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_{2.5} and Cardiovascular Admissions in NY State: Assessing Sensitivity of

- Exposure Model Choice. Oral Presentation. NASA Health and Air Quality Applied Sciences Team 5th 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_{2.5} products. Oral Presentation. NASA Health and Air Quality Applied Sciences Team 5th 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**.
- 10. **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 NO₂ and Mortality: A Multi-County Analysis. Oral Presentation. Columbia University Air Pollution Extremes Workshop, New York, New York. November **2018**.
- 9. 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 NO₂ 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_{2.5} exposure over the Northeast U.S.A. Oral Presentation. NASA Health and Air Quality Applied Sciences Team 3rd 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 3rd Biannual Meeting, Palisades, New York. November **2017**.
- 4. Wang Q, Wang J, **He MZ**, Kinney PL, Li T: A county-level estimate of PM_{2.5} 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 NO₂ 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**.

1. 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

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)

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)
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, Model Selection in Biostatistics: Techniques and Application, Jiangsu
	Provincial Center for Disease Control and Prevention, Nanjing, China (Host: Shiqi Zhen)

PROFESSIONAL SERVICE

Journal Referee

Applied Economics, Atmosphere, BMC Public Health, Chemosphere, Environmental Health, Environmental Pollution, Environmental Research, Environmental Research Connections, Environmental Research Letters, GeoHealth, International Journal of Environmental Research and Public Health, Sustainability, Urban Climate, Urban Science, and Viruses

Conference Abstract Reviewer

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

<u>TEACHING</u>	
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 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 Feb 2020	Air Pollution, H	dealth, and Climate Change, Public Health Impacts of Climate Change bia University Mailman School of Public Health, New York, New York Martinez)
Oct 2019	-	of Air Pollution and Health, Atmospheric and Climate Science for Public Columbia University Mailman School of Public Health, New York, New frey Shaman)
Apr 2019		and Climate Change: A Public Health Perspective, Introduction to themistry Course, Columbia University, New York, New York (Host:
Feb 2019		dealth, and Climate Change, Public Health Impacts of Climate Change bia University Mailman School of Public Health, New York, New York Martinez)
Jan 2019		nd Health in 2018: Case-Studies from China and the United States, ligh School, Diamond Bar, California (Host: Angela Jensvold)
Mar 2018		dealth, and Climate Change, Public Health Impacts of Climate Change bia University Mailman School of Public Health, New York, New York 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> _{2.5} : 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)