

# Adrian S.Z. Chase

Curriculum Vitae – January 2024

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## Education

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| 2021 | Ph.D. | Anthropology (focus in Archaeology), Arizona State University, Tempe, AZ<br><a href="#">Urban Life at Caracol, Belize Neighborhoods, Inequality, Infrastructure, and Governance</a><br>Committee: Michael E. Smith, Ben Nelson, Abigail York, Matthew A. Peeples |
| 2014 | M.A.  | Anthropology (focus in Archaeology), Arizona State University, Tempe, AZ   |
| 2012 | B.A.  | Anthropology and Computer Science, Harvard University, Cambridge, MA<br><a href="#">Beyond Elite Control: Water Management at Caracol, Belize</a><br>Honors and <i>cum laude</i> in both Anthropology and Computer Science                                       |

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## Academic Positions

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| 2022-2024 | Mansueto Institute Postdoctoral Fellow and Department of Anthropology Postdoctoral Scholar, The University of Chicago, Chicago, IL, USA |
| 2021-2022 | Research Fellow, Advanced GIS Lab, Center for Information Systems & Technology, Claremont Graduate University, Claremont, CA, USA       |

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## Primary Research Interests and Areas

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Themes: Anthropological Archaeology, Method, Theory, and Ethics; Landscape Archaeology and Human-Environment Interaction; Urbanism, Inequality, and Governance

Methods: Fieldwork, Laboratory, and Computational Analysis; Geographic Information Systems, Remote Sensing, and Lidar; Algorithms, Databases, Networks, and Models

Regions: Maya, Mesoamerica

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## Articles and Chapters

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| in press 2024 | <b>Adrian S.Z. Chase</b> and José Lobo. The Future of Mesoamerican Settlement Archaeology and Urban Science. In <i>Ancient Mesoamerican Population History: Urbanism, Social Complexity, and Change</i> , edited by Adrian S.Z. Chase, Arlen F. Chase, and Diane Z. Chase, pp. 389-402. University of Arizona Press, Tucson.  |
| in press 2024 | <b>Adrian S.Z. Chase</b> , Elyse D.Z. Chase, Diane Z. Chase, and Arlen F. Chase. Population History for Caracol, Belize: Numbers, Complexity, and Urbanism. In <i>Ancient Mesoamerican Population History: Urbanism, Social Complexity, and Change</i> , edited by Adrian S.Z. Chase, Arlen F. Chase, and Diane Z. Chase, pp. 67-88. University of Arizona Press, Tucson. |

- in press 2024 Arlen F. Chase, Diane Z. Chase, and **Adrian S.Z. Chase**. Archaeological Population Studies in Mesoamerica. In *Ancient Mesoamerican Population History: Urbanism, Social Complexity, and Change*, edited by Adrian S.Z. Chase, Arlen F. Chase, and Diane Z. Chase, pp. 5-41. University of Arizona Press, Tucson.
- in press 2024 **Adrian S.Z. Chase**. Urban Levels at Caracol, Belize: Understanding Social Relationships at the Plazuela, the Neighborhood, the District, and the City Levels. In *Socio-political Integration of Ancient Neighborhoods*, edited by Gabriella Cervantes Quequezana and John P. Walden. University of Pittsburg Center for Comparative Archaeology Press, Pittsburg.
- 2023 **Adrian S.Z. Chase**, Amy E. Thompson, John P. Walden, and Gary M. Feinman. Understanding and Calculating Household Size, Wealth, and Inequality in the Maya Lowlands. *Ancient Mesoamerica*, 34(e1):1-20. DOI:10.1017/S095653612300024X
- 2023 Amy E. Thompson, **Adrian S.Z. Chase**, Gary M. Feinman. Measuring Inequality: The Effects of Units of Analysis on the Gini Coefficient. *Ancient Mesoamerica*, 34(e2):1-13. DOI:10.1017/S0956536123000135
- 2023 **Adrian S.Z. Chase**. Transformation, Growth, and Governance at Caracol, Belize. *Research Reports in Belizean Archaeology*, 18:19-30. [link](#)
- 2023 Diane Z. Chase, José Lobo, Gary M. Feinman, David M. Carballo, Arlen F. Chase, **Adrian S.Z. Chase**, Scott R. Hutson, Alanna Ossa, Marcello Canuto, Travis W. Stanton, L.J. Gorenflo, Christopher A. Pool, Barbara Arroyo, Rodrigo Liendo Stuardo, and Deborah L. Nichols. Mesoamerican urbanism revisited: Environmental change, adaptation, resilience, persistence, and collapse. *PNAS*, 120(31):e2211558120 DOI:[10.1073/pnas.2211558120w](https://doi.org/10.1073/pnas.2211558120w)
- 2023 **Adrian S.Z. Chase**. Urban Planning at Caracol, Belize: Governance, Residential Autonomy, and Heterarchical Management through Time. In *Building an Archaeology of Maya Urbanism: Planning and Flexibility in the American Tropics*, edited by D.B. Marken and M.C. Arnauld, pp. 349-376. University Press of Colorado, Denver. [link](#)
- 2023 **Adrian S.Z. Chase**. Reconstructing and Testing Neighborhoods at the Maya City of Caracol, Belize. *Journal of Anthropological Archaeology* 70:101514. DOI: [10.1016/j.jaa.2023.101514](https://doi.org/10.1016/j.jaa.2023.101514)
- 2023 Scott R. Hutson, **Adrian S. Z. Chase**, Jeffrey B. Glover, William M. Ringle, Travis W. Stanton, Walter Witschey, Traci Ardren. Settlement Scaling in the Northern Maya Lowlands and Human-scale Implications. *Latin American Antiquity* (FirstView):1-8. DOI: [10.1017/laq.2022.103](https://doi.org/10.1017/laq.2022.103)
- 2022 Arlen F. Chase, Diane Z. Chase, and **Adrian S.Z. Chase**. Caracol, Belize and Tikal, Guatemala: Ancient Maya Human-Nature Relationships and their Socio-Political Context. In *Sustainability and Water Management in the Maya World and Beyond*, edited by Jean T. Larmon, Lisa J. Lucero, and Fred Valdez, Jr, pp. 143-170. University Press of Colorado, Louisville. [link](#)

- 2022 Amy E. Thompson, John P. Walden, **Adrian S.Z. Chase**, Scott R. Hutson, Damien B. Marken, Bernadette Cap, Eric C. Fries, M. Rodrigo Guzman Piedrasanta, Timothy S. Hare, Sherman W. Horn III, George J. Micheletti, Shane M. Montgomery, Jessica Munson, Heather Richards-Rissetto, Kyle Shaw-Müller, Traci Ardren, Jaime J. Awe, M. Kathryn Brown, Michael Callaghan, Claire E. Ebert, Anabel Ford, Rafael A. Guerra, Julie A. Hoggarth, Brigitte Kovacevich, John M. Morris, Holley Moyes, Terry G. Powis, Jason Yaeger, Brett A. Houk, Keith M. Prufer, Arlen F. Chase, and Diane Z. Chase. Ancient Lowland Maya Neighborhoods: Average Nearest Neighbor Analysis and Kernel Density Models, Environments, and Urban Scale. *PLoS ONE*, 17:e0275916. DOI: [10.1371/journal.pone.0275916](https://doi.org/10.1371/journal.pone.0275916)
- 2021 Nawa Sugiyama, Saburo Sugiyama, Tanya Catignani, **Adrian S.Z. Chase**, and Juan Carlos Fernandez-Diaz. Humans as geomorphic agents: Lidar Detection of the past, present and future of the Teotihuacan Valley, Mexico. *PLoS ONE* 16(9):e0257550. DOI: [10.1371/journal.pone.0257550](https://doi.org/10.1371/journal.pone.0257550)
- 2020 Arlen F. Chase, Diane Z. Chase, John M. Morris, Jaime J. Awe, and **Adrian S.Z. Chase**. Archaeology and Heritage Management in the Maya Area: History and Practice at Caracol, Belize. *Heritage*, 3(2):436-456. DOI: [10.3390/heritage3020026](https://doi.org/10.3390/heritage3020026)
- 2020 **Adrian S.Z. Chase** and Jonathan Paige. Local Chert Reduction, Maintenance, and Toolmaking: Terminal Classic Chert Use at Nohmul, Belize. *Research Reports in Belizean Archaeology*, 17:67-79. [link](#)
- 2020 **Adrian S.Z. Chase**, Arlen F. Chase, and Diane Z. Chase. Ethics, New Colonialism, and Lidar Data: A Decade of Lidar in Mesoamerica. *Journal of Computer Applications in Archaeology*, 3(1):51-62. DOI: [10.5334/jcaa.43](https://doi.org/10.5334/jcaa.43)
- 2020 Arlen F. Chase, Diane Z. Chase, and **Adrian S.Z. Chase**. The Maya City of Caracol, Belize: The integration of an anthropogenic landscape. In *The Maya World*, edited by Scott R. Hutson and Traci Ardren, pp. 344-363. Routledge, New York. [link](#)
- 2020 Diane Z. Chase, Arlen F. Chase, and **Adrian S.Z. Chase**. Caracol's Impact on the Landscape of the Classic Period Maya: Urbanism and Complex Interaction in a Tropical Environment. In *Approaches to Monumental Landscapes of the Ancient Maya*, edited by Brett A. Houk, Barbara Arroyo, and Terry G. Powis, pp. 109-130. University Press of Florida, Gainesville. DOI: [10.5744/florida/9780813066226.003.0006](https://doi.org/10.5744/florida/9780813066226.003.0006)
- 2019 **Adrian S.Z. Chase**. Water Management Among the Ancient Maya: Degrees of Latitude, *Research Reports in Belizean Archaeology*, 16:101-109. [link](#)
- 2019 **Adrian S.Z. Chase** and Rudolf Cesaretti. Diversity in Ancient Maya Water Management Strategies and Landscapes at Caracol, Belize and Tikal, Guatemala. *WIREs Water* e1332. DOI: [10.1002/wat2.1332](https://doi.org/10.1002/wat2.1332)
- 2018 **Adrian S.Z. Chase**, Diane Z. Chase, and Arlen F. Chase. Situating Preclassic Interments and Fire-pits at Santa Rita Corozal, Belize, *Research Reports in Belizean Archaeology*, 15:159-167. [link](#)

- 2017 **Adrian S.Z. Chase**. Residential Inequality Among the Ancient Maya: Operationalizing Household Architectural Volume at Caracol, Belize, *Research Reports in Belizean Archaeology*, 14:31-39. [link](#)
- 2017 **Adrian S.Z. Chase**, Diane Z. Chase, and Arlen F. Chase. LiDAR for Archaeological Research and the Study of Historical Landscapes, In *Sensing the Past: From artifact to historic site*, edited by Francesco Soldovieri and Nicola Masini, pp. 89-100. Springer, New York. DOI: [10.1007/978-3-319-50518-3\\_4](https://doi.org/10.1007/978-3-319-50518-3_4)
- 2016 **Adrian S.Z. Chase** and John F. Weishampel. Using LiDAR and GIS to Investigate Water and Soil Management in the Agricultural Terracing at Caracol, Belize, *Advances in Archaeological Practice*, 4(3):357-370. DOI: [10.7183/2326-3768.4.3.357](https://doi.org/10.7183/2326-3768.4.3.357)
- 2016 **Adrian S.Z. Chase**. Beyond elite control: residential reservoirs at Caracol, Belize, *WIREs Water* 2016. DOI: [10.1002/wat2.1171](https://doi.org/10.1002/wat2.1171)
- 2016 **Adrian S.Z. Chase**. Districting and Urban Services at Caracol, Belize: Intra-site Boundaries in an Evolving Maya Cityscape, *Research Reports in Belizean Archaeology*, 13:15-28. [link](#)
- 2015 Arlen F. Chase, Diane Z. Chase, Richard Terry, Jacob M. Horlacher, and **Adrian S.Z. Chase**, Markets Among the Ancient Maya: The Case of Caracol, Belize. In *The Ancient Maya Marketplace: The Archaeology of Transient Space*, edited by E. King, pp. 226-250. University of Arizona Press, Tucson. [link](#)
- 2015 **Adrian S.Z. Chase** and Aubrey M.Z. Chase. Ceramic Standardization and the Domestic Economy of the Ancient Maya: Belize Red Tripod Plates at Caracol, Belize, *Research Reports in Belizean Archaeology*, 12:65-76. [link](#)
- 2014 Aaron Myers, Sunil Movva, Rajasekar Karthik, Budhendra Bhaduri, Devin White, Neil Thomas, and **Adrian S.Z. Chase**. BioenergyKDF: enabling spatiotemporal data synthesis and research collaboration. *Proceedings of the 22<sup>nd</sup> ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems* 2014:479-500. DOI: [10.1145/2666310.2666488](https://doi.org/10.1145/2666310.2666488)
- 2014 Ben A. Nelson, **Adrian S.Z. Chase**, and Michelle Hegmon. Comparative Landscapes: Transformative Relocation in the American Southwest and Mesoamerica. *Archaeological Papers of the American Anthropological Association*, 24(1):171-182. DOI: [10.1111/apaa.12036](https://doi.org/10.1111/apaa.12036)

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## Books

- in press 2024 **Adrian S.Z. Chase**, Arlen F. Chase, and Diane Z. Chase. Editors, *Ancient Mesoamerican Population History: Urbanism, Social Complexity, and Change*. University of Arizona Press, Tucson. [link](#)

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**Fellowships and Grants: External Support**

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2019	Cluster of Excellence ROOTS at Kiel University Travel to present a paper in the ROOTS conference and workshop on inequality (2.134,94 €)
2018-2019	NSF Dissertation Improvement Grant (NSF#1822230) Dissertation Research on Urbanism (involving archaeological excavation) at Caracol, Belize (\$16,261)
2012-2017	NSF Graduate Research Fellowship 3 years of graduate tuition and stipend (used Fall '14 through Spring '17)
2014	Oak Ridge National Labs, Higher Education Research Experiences Fellowship with the Geographic Information Science and Technology group (10 weeks June-August)
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**Fellowships and Grants: Institutional Support**

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2021	George Cowgill Teotihuacan Research Award (\$1,000)
2021	ASU University Graduate Fellowship 1 credit of graduate tuition for enrollment and health insurance (\$2,770)
2019-2020	SHESC Completion Fellowship 1 year of graduate tuition and stipend (\$18,061)
2018	SHESC Travel Grant round trip airfare to the 2018 BAS (\$950.57)
2012-2016	ASU Graduate Research and Teaching Fellowship 4 years of graduate tuition and stipend (only Fall '12 – Spring '14 used due to NSF)

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**Invited Conference Presentations**

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2023 Nov	“Being an Ancient Maya Urbanite: From Neighborhood Materials to Neighborhood Identities” <i>Being Maya in Mesoamerica: Peoples, Places, and Power</i> , Santa Fe Institute. Santa Fe, New Mexico, USA. (Adrian S.Z. Chase), <b>Presentation &amp; Working Group</b>
2022 Aug	“The Importance of Neighborhoods to Being an Ancient Maya Urbanite” <i>Being Maya: Identity, Ontology, Agency</i> , Santa Fe Institute. Santa Fe, New Mexico, USA. (Adrian S.Z. Chase), <b>Presentation &amp; Working Group</b>
2022 May	“Urbanization of the Vaca Plateau: Caracol the city, “hinterlands”, and polity” <i>Beyond Cities: A comparative approach to ancient urban hinterlands</i> , Mansueto Institute for Urban Innovation. Chicago, Illinois, USA (Adrian S.Z. Chase), <b>Presentation &amp; Workshop</b>

- 2022 April “Archaeological Population Studies in Mesoamerica” *Amerind Foundation Seminar: Ancient Mesoamerican Population*. Amerind. Dragoon, Arizona, USA (Arlen F. Chase, Diane Z. Chase, and Adrian S.Z. Chase), **Presentation & Workshop**
- 2022 April “Population History for Caracol, Belize: Numbers, Complexity, and Urbanism” *Amerind Foundation Seminar: Ancient Mesoamerican Population*. Amerind. Dragoon, Arizona, USA (Adrian S.Z. Chase, Elyse D.Z. Chase, Diane Z. Chase, and Arlen F. Chase), **Presentation & Workshop**
- 2021 June “Lidar and Landscape: Changed Perspectives on the Maya Past” *Earth Archive Conference*. Zoom digital conference (Arlen F. Chase, Adrian S.Z. Chase, and Diane Z. Chase), **Presentation**
- 2020 April “Lidar and the Archaeology of Caracol, Belize: Ten Years After” *LiDAR: Research, Protection, and Conservation of Archaeological Heritage in the 21<sup>st</sup> Century*, Getty Research Institute. Zoom digital conference due to COVID-19 (Arlen F. Chase, Diane Z. Chase, and Adrian S.Z. Chase), **Presentation**
- 2019 Oct “Intra-site inequality within Caracol, Belize: A district-level analysis of residences inside a garden city” *Quantifying Social Inequalities – New Proxies, New Methods: Possibilities and Limitations to Determine Social Inequalities in Archaeological Contexts*, ROOTS - Cluster of Excellence: Subcluster ROOTS of Inequalities. Kiel, Germany (Adrian S.Z. Chase), **Presentation & Workshop**
- 2018 Dec “The Impact of Caracol LiDAR on Mesoamerican Archaeology a Decade Later” *Paris Dialogue on Archaeological Lidar*. Paris, France (Arlen F. Chase, Diane Z. Chase, and Adrian S.Z. Chase), **Presentation**
- 2018 Aug “Maya Demography and Urban Models” *Settlement Scaling and the Challenge of Maya Low-Density Urbanism*, Santa Fe Institute. Santa Fe, New Mexico, USA. (Adrian S.Z. Chase), **Presentation & Workshop**

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#### Contributed Conference Presentations

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- AAA – American Anthropological Association  
 AABA – American Association of Biological Anthropologists  
 BAS/BAAS – Belize Archaeology (and Anthropology) Symposium  
 CAA – Computer Applications and Quantitative Methods in Archaeology  
 SAA – Society for American Archaeology

- \* 2024 April “Cities on the Cutting Edge: Urban Research in Belizean Archaeology” 89<sup>th</sup> SAA. New Orleans, Louisiana, USA (Adrian S.Z. Chase, Brett A. Houk, Elizabeth A. Graham, John M. Morris, and Amy E. Thompson), **Presentation**
- \* 2024 April “House and City: Ancient Maya Water Management in Belize” 89<sup>th</sup> SAA. New Orleans, Louisiana, USA (Lisa Lucero and Adrian S.Z. Chase), **Presentation**

- \* 2024 April “Whose Land? Governance of Land Tenure, Property, and Inequality in the Maya Lowlands” 89<sup>th</sup> SAA. New Orleans, Louisiana, USA (Amy E. Thompson and Adrian S.Z. Chase), **Presentation**
- \* 2024 April “Thoughts on Accessibility, Urban Services, and District Planning from Caracol, Belize” 89<sup>th</sup> SAA. New Orleans, Louisiana, USA (Adrian S.Z. Chase), **Lightning Round**
- \* 2024 March “Paleogenomic and Isotopic Evidence of Maya Persistence at Late Postclassic and Early Colonial Chactemal (Santa Rita Corozal), Belize.” 93<sup>rd</sup> AABA. Los Angeles, California, USA (Rick W.A. Smith, Angelina J. Locker, Adela Pederson Vallejos, Roy Rodriguez, Melissa Badillo, Lauren C. Springs, Tiffany Tung, Jada Benn Torres, Adrian S.Z. Chase, Diane Z. Chase, Arlen F. Chase, and Austin W. Reynolds), **Presentation**
- \* 2024 March “The Maya are Peoples of Movement: An Isotopic Assessment at Chactemal (Santa Rita Corozal), Northern Belize.” 93<sup>rd</sup> AABA. Los Angeles, California, USA (Angelina J. Locker, Lilian Baker, Meredith Amato, Adela Pederson Vallejos, Roy Rodriguez, Melissa Badillo, Lauren C. Springs, Tiffany A. Tung, Diane Z. Chase, Arlen F. Chase, Adrian S.Z. Chase, Austin W. Reynolds, and Rick W.A. Smith), **Presentation**
- 2023 Nov “Questioning Early Ceramic Dating in Northern Belize: New Data from Santa Rita Corozal, Belize” 11<sup>th</sup> South-Central Conference on Mesoamerica. San Antonio, Texas, USA (Arlen F. Chase, Diane Z. Chase, Rick W.A. Smith, Angelina Locker, and Adrian S.Z. Chase), **Presentation**
- 2023 April “Paleogenomic Insights into the Composition of an Ancient Urban Neighborhood Near the Puchituk Terminus, Caracol” 92<sup>nd</sup> AABA. Reno, Nevada, USA. (Celia D. Cleary, Angelina J. Locker, Diane Z. Chase, Arlen F. Chase, Adrian S.Z. Chase, Melissa M. Badillo, Jada Benn Torres, Austin W. Reynolds, and Rick W.A. Smith), **Poster**
- 2023 April “A Stable Isotopic Analysis of Diet Across Three Millennia of Maya Settlement at Santa Rita Corozal, Belize” 92<sup>nd</sup> AABA. Reno, Nevada, USA. (Meredith M. Amato, Angelina J. Locker, Arlen F. Chase, Diane Z. Chase, Adrian S.Z. Chase, Melissa M. Badillo, Lauren C. Springs, Tiffany A. Tung, Austin W. Reynolds, and Rick W.A. Smith), **Poster**
- 2023 April “Grasping the Green Giant: The Epistemology of Ancient Maya Agriculture” 88<sup>th</sup> SAA. Portland, Oregon, USA (Adrian S.Z. Chase), **Presentation**
- 2023 April “Scale and Political Integration of Ancient Maya Polities: Ideology, Frame Analysis, and Caracol, Belize” 88<sup>th</sup> SAA. Portland, Oregon, USA (Diane Z. Chase, Arlen F. Chase, and Adrian S.Z. Chase), **Presentation**
- 2023 April “How Transdisciplinary Research Advances the Field of Maya Archaeology” 88<sup>th</sup> SAA. Portland, Oregon, USA (Arlen F. Chase, Diane Z. Chase, and Adrian S.Z. Chase), **Presentation**
- 2022 June “Transformation, Growth, and Governance at Caracol, Belize” 18<sup>th</sup> BAS. San Ignacio, Belize (Adrian S.Z. Chase), **Presentation**

- 2022 April “Urban Development in Settlement, Infrastructure, and Governance: Diachronic Changes at the City of Caracol, Belize” 87<sup>th</sup> SAA. Chicago, Illinois, USA. (Adrian S.Z. Chase), **Presentation**
- 2022 April “Dynasties, Bureaucracies, and Governance among the Late Classic Maya: Caracol and Its Peers” 87<sup>th</sup> SAA. Chicago, Illinois, USA. (Arlen F. Chase, Diane Z. Chase, and Adrian S.Z. Chase), **Presentation**
- 2022 April “Identifying Ancient Neighborhoods at Caracol, Belize: Landscape Analyses and the Archaeological Record” 86<sup>th</sup> SAA. Chicago, Illinois, USA. (Diane Z. Chase, Arlen F. Chase, and Adrian S.Z. Chase), **Presentation**
- 2022 April “Household Size, Wealth, and Inequality in the Maya Lowlands” Session at the 86<sup>th</sup> SAA. Chicago, Illinois, USA. (Adrian S.Z. Chase), **Discussant**
- 2021 April “Reconstructing and Testing Ancient Neighborhoods at Caracol, Belize” 86<sup>th</sup> SAA. Zoom digital conference due to COVID-19 (Adrian S.Z. Chase), **Presentation**
- 2021 April “Population Estimation in Ancient Mesoamerica: Retrospective and Prospective” 86<sup>th</sup> SAA. Zoom digital conference due to COVID-19 (Arlen F. Chase, Diane Z. Chase, and Adrian S.Z. Chase), **Presentation**
- 2021 April “Population History for Caracol, Belize: Numbers, Complexity, and Urbanism” 86<sup>th</sup> SAA. Zoom digital conference due to COVID-19 (Elyse D.Z. Chase, Adrian S.Z. Chase, Diane Z. Chase, and Arlen F. Chase), **Presentation**
- 2021 April “Examining Flaked Stone from Caracol, Belize at the Urban Scale” 86<sup>th</sup> SAA. Zoom digital conference due to COVID-19 (Lucas M. Johnson and Adrian S.Z. Chase), **Presentation**
- 2021 April “Neighborhoods, Districts, and Intra-Urban Boundaries at Caracol, Belize” 86<sup>th</sup> SAA. Zoom digital conference due to COVID-19 (Adrian S.Z. Chase), **Lightning Round**
- 2019 Nov “Inequality within the Garden City: A district-level analysis of plazuela groups at Caracol, Belize” 2<sup>nd</sup> Arizona Southwest Mesoamerica Conference. Flagstaff, Arizona, USA (Adrian S.Z. Chase), **Presentation**
- 2019 June “Local Chert Reduction, Maintenance, and Toolmaking: Terminal Classic Chert Use at Nohmul, Belize” 17<sup>th</sup> BAS. San Ignacio, Belize (Adrian S.Z. Chase and Jon Paige), **Presentation**
- 2019 June “Inequality within a Maya Garden City: District-level Analysis at Caracol, Belize” 16<sup>th</sup> BAS. San Ignacio, Belize (Adrian S.Z. Chase), **Poster**
- 2019 June “A Decade Later: The Impact of Caracol LiDAR Surveys on Archaeological Interpretation in the Maya Area.” XI Congreso Internacional de Mayistas, Chetumal, Mexico (Arlen F. Chase, Diane Z. Chase, and Adrian S.Z. Chase), **Paper**



- 2019 April “Uncovering a Globalized Past with the Connections Project: Highlighting challenges associated with exploring long-distance interaction between the Southwest US and Mexico” 84<sup>th</sup> SAA. Albuquerque, New Mexico, USA (Brooke Hundtoft, Christopher W. Schwartz, and Adrian S.Z. Chase), **Presentation**
- 2019 April “Ancient Maya Sustainability at Caracol, Belize: Implications for the Past and Future” 84<sup>th</sup> SAA. Albuquerque, New Mexico, USA (Arlen F. Chase, Diane Z. Chase, and Adrian S.Z. Chase), **Electronic Session**
- 2019 April “Water Management at Caracol, Belize” 84<sup>th</sup> SAA. Albuquerque, NM, USA (Adrian S.Z. Chase), **Lightning Round**
- 2019 April “Challenges in Digital and Virtual Ethics with LiDAR Data” 84<sup>th</sup> SAA. Albuquerque, New Mexico, USA (Adrian S.Z. Chase), **Forum Discussant**
- 2019 April “District-level inequality at a Maya city: Intra-site inequality at Caracol, Belize” 84<sup>th</sup> SAA. Albuquerque, New Mexico, USA (Adrian S.Z. Chase), **Poster**
- 2018 Dec “Updates on projects worldwide” Paris Dialogue on Archaeological Lidar. Paris, France (Adrian S.Z. Chase), **Panelist**
- 2018 Dec “Urbanism at Caracol, Belize” 1<sup>st</sup> Arizona Southwest Mesoamerica Conference. Tempe, Arizona, USA (Adrian S.Z. Chase), **Presentation**
- 2018 June “Water Management among the Ancient Maya: Degrees of Latitude” 15<sup>th</sup> BAS. San Ignacio, Belize (Adrian S.Z. Chase), **Presentation**
- 2018 April “Understanding Infrastructural Power, Collective Action, and Urban Form: Situating Neighborhoods and Districts at Caracol, Belize” 83<sup>rd</sup> SAA. Washington, D.C., USA (Adrian S.Z. Chase), **Presentation**
- 2018 April “Methods of LiDAR Mapping in Urban Landscapes: Introducing the Teotihuacan LiDAR Map” 83<sup>rd</sup> SAA. Washington, D.C., USA (Nawa Sugiyama, Saburo Sugiyama, Adrian S.Z. Chase, Tanya Catignani, and Taylor Gibson), **Presentation**
- 2018 April “LiDAR Use in Virtual and Digital Ethics” 83<sup>rd</sup> SAA. Washington, D.C., USA (Adrian S.Z. Chase), **Forum Discussant**
- 2017 June “Situating Preclassic Interments at Santa Rita Corozal, Belize” 14<sup>th</sup> BAS. San Ignacio, Belize (Adrian S.Z. Chase), **Presentation**
- 2017 June “Nohmul Chert” 14<sup>th</sup> BAS. San Ignacio, Belize (Adrian S.Z. Chase & Jon Paige), **Poster**
- 2017 April “Terminal Classic Chert Use at Nohmul, Belize” 82<sup>nd</sup> SAA. Vancouver, Canada (Adrian S.Z. Chase and Jon Paige), **Poster**
- 2017 March “Erasing the Garden City: Interpolation of Architectural Volume from LiDAR derived DEMs” 45<sup>th</sup> CAA. Atlanta, Georgia, USA (Adrian S.Z. Chase), **Presentation**
- 2016 June “Operationalizing the Inequality of Household Architecture at Caracol, Belize” 14<sup>th</sup> BAAS. San Ignacio, Belize (Adrian S.Z. Chase), **Presentation**

- 2016 April “Heterarchical Entanglement: The Complexity of Maya Water Management” 81<sup>st</sup> SAA. Orlando, Florida, USA (Adrian S.Z. Chase), **Presentation**
- 2016 April “LiDAR at Caracol,” 81<sup>st</sup> SAA. Orlando, Florida, USA (Adrian S.Z. Chase), **Forum Discussion**
- 2015 July “Districting and Urban Services at Caracol, Belize: Intrasite Boundaries in an Evolving Maya Cityscape” 13<sup>rd</sup> BAAS. San Ignacio, Belize (Adrian S.Z. Chase), **Presentation**
- 2015 April “Residential Architecture at Caracol, Belize: Conjoined Buildings and Distributed Space,” 80<sup>th</sup> SAA. San Francisco, California, USA (Adrian S.Z. Chase, Arlen F. Chase, and Diane Z. Chase), **Presentation**
- 2014 Nov “Bioenergy KDF: Enabling Spatiotemporal Data Synthesis and Research Collaboration,” 22<sup>nd</sup> ACM SIGSPATIAL. Dallas, Texas, USA (Aaron Myers, Sunil Movva, Rajasekar Karthik, Budhendra Bhaduri, Devin White, Neil Thomas, and Adrian S.Z. Chase), **Paper**
- 2014 July “Ceramic Standardization and the Domestic Economy of the Ancient Maya,” 12<sup>th</sup> BAAS. San Ignacio, Belize (Adrian S.Z. Chase and Aubrey M.Z. Chase), **Presentation**
- 2014 April “Water Capture and Agricultural Terracing at Caracol, Belize as revealed through the 2009 LiDAR Campaign,” 79<sup>th</sup> SAA. Austin, Texas, USA (Adrian S.Z. Chase, John F. Weishampel, and Diane Z. Chase), **Presentation**
- 2013 Nov “Water at Caracol, Belize: the Use and Construction of Non-centralized Resources in an Urban Maya Landscape,” Maya Water Management Workshop, iGLOBES. Tucson, Arizona, USA (Adrian S.Z. Chase), **Presentation**
- 2012 April “Beyond Elite Control: Maya Classic Period Water Management at Caracol, Belize,” 77<sup>th</sup> SAA. Memphis, Tennessee, USA (Adrian S.Z. Chase), **Poster**
- 2011 Nov “Comparative Landscapes: Resilience, Rigidity, and Past Dependence in the American Southwest and Mesoamerica,” 110<sup>th</sup> AAA. Montréal, Canada (Ben A. Nelson, Adrian S.Z. Chase, and Michelle Hegmon), **Presentation**

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### **Organized Sessions and Workshops**

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- \* 2024 May “Indigenous Roads and Nodes in the Americas” Mansueto Institute for Urban Innovation, Chicago, Illinois, USA. Organizer: **Adrian S.Z. Chase**.
- 2022 April “Ancient Mesoamerican Population History” Amerind Foundation, Dragoon, Arizona, USA. Organizers: Arlen F. Chase, Diane Z. Chase, **Adrian S.Z. Chase**. Selected by the Amerind based on 2021 SAA session for an Advanced Seminar.
- 2022 April “Household Size, Wealth, and Inequality in the Maya Lowlands” Session at the 87<sup>th</sup> SAA. Chicago, Illinois, USA. Organizers: **Adrian S.Z. Chase** and Amy E. Thompson
- 2021 April “People and Space: Defining Communities and Neighborhoods with Social Network Analysis” Session at the 86<sup>th</sup> SAA. San Francisco, California, USA. Zoom digital conference due to COVID-19. Organizers: **Adrian S.Z. Chase**, April Kamp-Whittaker

- 2021 April “Multiscalar Approaches to Extrapolating Sociopolitical Boundaries in the Maya Lowlands” Session at the 86<sup>th</sup> SAA. San Francisco, California, USA. Zoom digital conference due to COVID-19. Organizers: Amy E. Thompson, John P. Walden, and **Adrian S.Z. Chase**
- 2021 April “Ancient Mesoamerican Population History: Demography, Social Complexity, and Change” Session at the 86<sup>th</sup> SAA. San Francisco, California, USA. Zoom digital conference due to COVID-19. Organizers: Arlen F. Chase, Diane Z. Chase, and **Adrian S.Z. Chase**
- 2017 March “Urbanism at the micro, meso and macro scales: Advances in computational and quantitative methods to study cities and their built environments” Session at the 45<sup>th</sup> CAA. Atlanta, Georgia, USA. Organizers: Eleftheria Paliou, **Adrian S.Z. Chase**

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### Fieldwork

- \* 2024 Lab and Field Director (10 weeks in January-March) Caracol Archaeological Project, Cayo District, **Belize**. PIs, Drs. Arlen Chase & Diane Chase (University of Houston) *Neighborhood excavations south of Dos Aguadas*
- 2023 Lab and Field Director (1 week in January and 2 weeks in March) Caracol Archaeological Project, Cayo District, **Belize**. PIs, Dr. Arlen Chase (Pomona College) & Dr. Diane Chase (University of Houston) *Neighborhood excavations east of Dos Aguadas*
- 2021, 2022 No field research due to high COVID-19 levels in Belize (CDC level 4 rating)
- 2020 Lab and Field Director. (3 weeks in March). Caracol Archaeological Project, Cayo District, **Belize**. PIs, Dr. Arlen Chase (Pomona College) & Dr. Diane Chase (Claremont Graduate University) *Household investigations in Ace neighborhood south of Puchituk*
- 2019 Lab and Field Director. (9 weeks in January-March). Caracol Archaeological Project, Cayo District, **Belize**. PIs, Drs. Arlen & Diane Chase (University of Nevada, Las Vegas) *NSF Dissertation Improvement Grant (#1822230) household investigation in Ace neighborhood east of Puchituk*
- 2018 Lab and Field Director. (9 weeks in January-March). Caracol Archaeological Project, Cayo District, **Belize**. PIs, Drs. Arlen & Diane Chase (University of Nevada, Las Vegas) *Residential group investigations in Chak neighborhood west of Puchituk Terminus*
- 2017 Field Supervisor. (8 weeks in January-March). Caracol Archaeological Project, Cayo District, **Belize**. PIs, Drs. Arlen & Diane Chase (University of Nevada, Las Vegas) *Supervising excavation of household architecture north of Caracol’s epicenter*
- 2016 GIS Specialist. (3 weeks in July-August). Proyecto Plaza de las Columnas, Teotihuacan, **Mexico**. PIs, Drs. Nawa Sugiyama (George Mason) & Saburo Sugiyama (Arizona State University / Aichi Prefectural University) *Excavation at Frente C and GIS work on the Teotihuacan LiDAR*

- 2016 Field Supervisor. (8 weeks in January-March). Caracol Archaeological Project, Cayo District, **Belize**. PIs, Drs. Arlen & Diane Chase (University of Central Florida) *Excavation of large architecture: eastern structure C117G and western structure C207G*
- 2011 Survey Assistant. (5 weeks in June-July). Hibemerdon Tepe Survey Project, Diyarbakir Province, **Turkey**. PI, Dr. Jason Ur (Harvard University) *Survey with GPS points for ceramic and lithic collections and georectification of satellite imagery*
- 2011 Field Supervisor. (8 weeks in January-March). Caracol Archaeological Project, Cayo District, **Belize**. PIs, Drs. Arlen & Diane Chase (University of Central Florida) *Excavation of the eastern structure in the C179 plazuela group*
- 2009 Field Assistant. (5 weeks in June-July). É! Proyecto Chichén Itza, Yucatán, **Mexico**. PI, Dr. Rafael Cobos (Universidad Autónoma de Yucatán) *Excavation at elite residential compound 2D6*

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### Published Datasets

- 2020 Structure 20 and 9 chert data from Corozal Postclassic Project 1978 and 1979 excavations of Nohmul, Belize. Adrian Chase, Jonathan Paige. 2019 (tDAR id: 455196); DOI: [10.6067/XCV8455196](https://doi.org/10.6067/XCV8455196)

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### Technical Reports

- 2019-present co-author of Caracol Archaeological Project season reports. Online at [www.caracol.org](http://www.caracol.org)
- 2017 Nawa Sugiyama, **Adrian S.Z. Chase**, Tanya Catignani, Taylor Gibson, and Omar Rodriguez, “Capítulo 14. LiDAR”, Proyecto Complejo Plaza de las Columnas

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### Teaching and Learning

- 2023 Sept Pedagogical Training – September Symposium on Teaching at the University of Chicago
- 2022-2023 Pedagogical Training – University of Chicago Diversity, Equity, and Inclusion Course
- 2018 Autumn Co-Instructor – “Cities and Empires in Ancient Mesoamerica” – Osher Lifelong Learning Institute at Arizona State University (with Michael E. Smith and Angela Huster)
- 2017 Autumn Teaching Assistant – “ASB 223: Aztec, Incas and Mayas” – Arizona State University (for Christopher Moreheart)

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### Museum Curation

- 2010 Spring (12 weeks January-May) Student Curator. Spying on the Past: Revealing the Invisible, **Peabody Museum of Archaeology and Ethnology**, Harvard University. Exhibit Organizers, Ilisa Barbash, Adam Stack, and Jason Ur. *Created an exhibit on use of corona satellite imagery to study transhumance and nomads.* (see also [Ur 2013](#))

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**Professional Film/Video Appearances**

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- 2022 *Fall of the Maya Kings*. LGI Media, 52 minutes. Premiered 6/18/2022 on Arte.tv and myCANAL in France as “La Chute des Rois Maya.” Filmed/interviewed during the 2020 field season in Belize. (Zoot Pictures, Inc., Winnipeg, Canada). [link](#)
- 2022 *Ancient Maya Metropolis*. 53 minutes. Premiered 1/26/2022 on NOVA. Filmed/interviewed during the 2020 field season in Belize. (Fierce Turtle Media/Zoot Pictures, Inc., Winnipeg, Canada). [link](#)

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**Professional Television Appearances**

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- 2023 *How an American couple are piecing together a lost civilization*. 7 minutes. Shown on 3/18/2023 on CBS Saturday Morning. Filmed/interviewed during the 2023 field season in Belize. (CBS news, USA). [link](#)

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**Interviews**

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- 2023 *Identifier des ruines mayas encore enfouies grâce au LiDAR*. 8 min. Available on Dec 10<sup>th</sup> 2023 on [Les Années Lumière](#) on [Radio-Canada](#) by Alexandre Touchette. (interview clips with French voice-overs). [link](#)
- 2023 *Ancient Maya power brokers lived in neighborhoods, not just palaces*. News Article. Available on Dec 4<sup>th</sup> 2023 on [Science News](#) by Bruce Bower. [link](#)
- 2023 *Mapping Ancient Maya Cities*. 59 minutes. Available on June 1<sup>st</sup> 2023 on [The Tel](#) by Sebastian Wetherbee. [link](#)

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**Public Lectures**

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- 2024 Jan “Urbanism and Agriculture: Epistemology and Anthropogenic Landscapes” (Adrian S.Z. Chase) Mansueto Institute Colloquium at the University of Chicago, Illinois
- 2023 Nov “Proximity and Distance: Neighborhood Identities at Caracol, Belize” (Adrian S.Z. Chase) Interdisciplinary Archaeology Workshop Presentation at the University of Chicago, Illinois
- 2023 Aug “Lidar and Maya Archaeology” (Adrian S.Z. Chase) Staff Lecture at The Museum of Science and Industry, Chicago, Illinois
- 2023 Jan “Life in an Ancient Maya Metropolis: Urban Form, Time, and Accessibility at Caracol, Belize” (Adrian S.Z. Chase) Guest lecture at Michigan State University, Michigan
- 2023 Jan “Indigenous Urban Structure in the Garden City of Caracol, Belize” (Adrian S.Z. Chase) Mansueto Institute Colloquium at the University of Chicago, Illinois
- 2022 Oct “From Garden Cities to Isolated Households: Multi-level Settlement Scaling and Ancient Maya Urbanism” (Adrian S.Z. Chase) Friday Archaeology guest lecture for Washington University in St. Louis Department of Anthropology, Missouri

- 2022 June “Ancient Mesoamerican Population History: Estimating Past Complexity and Change from the Archaeological Record” (Arlen F. Chase, Diane Z. Chase, and Adrian S.Z. Chase) Amerind free online lecture, Arizona
- 2021 Oct “The Archaeology of Inequality, Disparity, and Wealth at Caracol, Belize” (Adrian S.Z. Chase) Online guest lecture for LSU Lambda Alpha Online Lecture Series, Louisiana
- 2021 May “To the City’s Edge: Urbanism at Caracol, Belize.” (Adrian S.Z. Chase) Online guest lecture for SUNY Oswego Department of Anthropology, New York

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### **Service to the Profession**

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Society for American Archaeology (SAA):

Member of the Committee on Ethics (from April 2021 to April 2025)

Review Editor for:

Institutions and Collective Action special section of *Frontiers in Human Dynamics*

Peer reviewer for the following journals:

Advances in Archaeological Practice  
 Antiquity  
 Journal of Anthropological Archaeology  
 Journal of Archaeological Method and Theory  
 Journal of Archaeological Research  
 Journal of Archaeological Science: Reports  
 MDPI Hydrology  
 MDPI Land  
 MDPI Remote Sensing  
 Nature Cities  
 Open Archaeology  
 Scientific Reports

Panel member for grant proposals:

National Aeronautics and Space Administration (NASA), Space Archaeology (Spr. 2020)

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### **Service to the University of Chicago**

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- 2023-2024 Special expert for Center for Ancient Middle Eastern Landscapes (CAMEL) fellowship program steering committee. Theme: “Modeling Movement in Ancient Landscapes.”
- 2023 Fall Panel discussant for University of Chicago Library on, “Responding to Reviewers.”
- 2022 Fall Panel discussant for the Interdisciplinary Archaeology Workshop session on, “The international and collaborative nature of archaeology.”

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### **Service to Arizona State University**

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- 2019 Autumn Graduate student mentor for Christopher Langenderfer’s undergraduate honors enrichment contract (weekly readings and discussion about lidar and archaeological research with Chris, including comments and revisions of his manuscript)

2014-2015	Archaeology approach representative for SHESC (School of Human Evolution and Social Change) AAGS (Association of Anthropology Graduate Students) council
2013-2021	Association of All Graduate Students (AAGS) graduate student mentor for 8 graduate students, volunteering to mentor one newly admitted student each year.

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### Languages

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English	Fluent
Spanish	Moderate Speaking and Proficient Reading

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### Software

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Programming	Proficient in: R, Java, and Python Experience with: C, PHP, and PLT-Scheme
GIS	Proficient in: ESRI's ArcGIS and GRASS GIS Experience with: QGIS and GeoDa
ABM	Experience with: NetLogo
Databases	Experience with: MySQL, PostgreSQL

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### Awards & Honors

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2020	College of Liberal Arts and Sciences Graduate Excellence Award (ASU, AZ)
2019	College of Liberal Arts and Sciences Graduate Excellence Award (ASU, AZ)
2018	College of Liberal Arts and Sciences Graduate Excellence Award (ASU, AZ)
2016	Inducted into the Phi Kappa Phi (ΦΚΦ) honor society (National, USA)
2015	College of Liberal Arts and Sciences Graduate Excellence Award (ASU, AZ)
2014	SHESC honorable mention for the Ruppé Prize in Archaeology (ASU, AZ)
2014	College of Liberal Arts and Sciences Graduate Excellence Award (ASU, AZ)
2008	Valedictorian, Winter Springs High School (Winter Springs, FL)
2007	National Merit Scholar (National, USA)

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### Professional Societies

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2016-present	ΦΚΦ, the Honor Society of Phi Kappa Phi
2011-present	SAA, the Society for American Archaeology

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### References Available Upon Request

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