

Benjamin Titus Irvine

PhD, MSc, MA(Hons)

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EMPLOYMENT

- 2023-present Post-Doctoral Researcher on **TÜBİTAK 1001** project (project PI - Kameray Özdemir, Hacettepe University. Project No. 123K441 - “Gusir Höyük Neolitik Dönem Topluluğunun Paleodiyet Analizi [Paleodiet Analysis of the Gusir Höyük Neolithic Population]”)
- 2020-2022 **DAI-ANAMED** (German Archaeological Institute- Koç University Research Center for Anatolian Civilizations) Post-Doctoral Environmental Research Fellow
- 2018-2020 Post-Doctoral Research Fellow of the **British Institute at Ankara (BIAA)**
- 2017-2018 Research Scholar of the **BIAA**
- 2012 Research Scholar of the **BIAA**

EDUCATION

- 2012-2017 PhD (magna cum laude) – ‘An isotopic analysis of dietary habits in Early Bronze Age Anatolia’, Institut für Vorderasiatische Archäologie, **Freie Universität Berlin** (Germany)
- 2010-2011 MSc in Human Osteoarchaeology, School of History, Classics, and Archaeology; **University of Edinburgh** (UK)
- 2005-2009 MA(Hons) in Ancient Civilisations of the Mediterranean and Middle East (2:1), School of History, Classics, and Archaeology; **University of Edinburgh** (UK)

ONGOING RESEARCH

- 2024-present **Türkmen-Karahöyük Archaeological Project**. Head of the Human Osteoarchaeology Lab (TKAP-HOL). Directors: Michele Massa (Bilkent University), James Osborne (University of Chicago)
- 2023-present **Gusir Höyük**. Specialist working on bioarchaeological and isotopic ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$, $\delta^{34}\text{S}$) examination of the early Neolithic human dietary habits and human-animal interactions
- 2023-present **Karataş-Semayük**. Specialist working on Early Bronze Age human dietary habits, social dynamics, mobility, and migration, utilising human

- ostearchaeological analyses and stable isotopes of carbon ($\delta^{13}\text{C}$), nitrogen ($\delta^{15}\text{N}$), and sulphur ($\delta^{34}\text{S}$)
- 2023-present Member of the **İDEA Lab** (İnsan Davranışsal Ekolojisi ve Arkeometri Laboratuvarı [Human Behavioural Ecology and Archaeometry Laboratory]) – lab head Ali Metin Büyükkarakaya (Hacettepe University). Biological anthropological, bioarchaeological, and isotopic research of past people and populations in Türkiye
- 2022-present **Kültepe**. Specialist working on Bronze Age human dietary habits and animal management, utilising stable isotopes of carbon ($\delta^{13}\text{C}$) and nitrogen ($\delta^{15}\text{N}$)

GRANTS AND FELLOWSHIPS

- 2020-present Honorary Research Fellow of the BIAA
- 2020 BIAA Research Grant – “An integrated bioarchaeological isotope database website” (Project PI, £4,200)
- 2014-2015 DAAD (German Academic Exchange Service) - Research Grant for Doctoral Candidates and Young Academics and Scientists
- 2014 TÜBİTAK 2216 - Research Fellowship Programme for International Researchers

PUBLICATIONS

International Peer-Reviewed Journal Articles

- Under review **Irvine, B.** An isotopic overview of dietary habits and subsistence practices in the Aegean World. *Frontiers in Environmental Archaeology*
- Under review Uysal, G., **Irvine, B.**, Özdemir, K. A historical case of Eagle’s syndrome from the Constantine-Helena Church, Niğde, Türkiye. *International Journal of Paleopathology*
- 2025 Özdemir, K., **Irvine, B.**, Büyükkarakaya, A.M., Çakan, Y.G., Gündem, C.Y., Doğan, T., Kulak, F., Bıçakçı, E. Investigation of dietary habits in the Neolithic Tepecik-Çiftlik population. *Journal of Archaeological Science: Reports* 61: 104919. <https://doi.org/10.1016/j.jasrep.2024.104919>
- 2024 **Irvine, B.**, Luke, C., Çakırlar, C., Kaner, T., Özbal, R., Fındıklar, Ş., Roosevelt, C.H. Stable isotope analysis of faunal remains from Bronze Age Kaymakçı, Western Anatolia. *The Holocene* <https://doi.org/10.1177/09596836241297077>
- 2024 Özdemir, K., **Irvine, B.**, Büyükkarakaya, A.M., Doğan, T., Kulak, F., Çakan, Y.G., Bıçakçı, E. A biogeochemical approach to examining sub-adult diet and the weaning process at Neolithic Tepecik-Çiftlik, Türkiye. *Journal of Archaeological Science: Reports* 60: 104848. <https://doi.org/10.1016/j.jasrep.2024.104848>
- 2024 **Irvine, B.**, Shin, N., Luke, C., Roosevelt, C.H. Stable carbon isotope ($\delta^{13}\text{C}$) analysis of archaeobotanical remains from Bronze Age Kaymakçı (western

- Anatolia) to investigate crop management. *Vegetation History and Archaeobotany* 33: 289-300. <https://doi.org/10.1007/s00334-023-00941-1>
- 2023 Brami, M., Emra, S., Muller, A., Preda-Bălănică, B., **Irvine, B.**, Milić, B., Malagó, A., Meheux, K., Fernández-Götz, M. A precarious future: Reflections from a survey of early career researchers in archaeology. *European Journal of Archaeology* 26(2): 226-250. <https://doi.org/10.1017/ea.2022.41>
- 2021 Algaze, G., Greenfield, H.J., Hald, M.M., Hartenberger, B., **Irvine, B.**, Matney, T., Nishimura, Y., Pournelle, J., Rosen, S.A. Early Bronze Age urbanism in southeastern Anatolia and Upper Mesopotamia: Recent analyses from Titriş Höyük. *Anatolica* 47: 1-70. <https://doi.org/10.2143/ANA.47.0.3289555>
- 2020 **Irvine, B.**, Özdemir, K. Biogeochemical approaches to bioarchaeological research in Turkey: A review. *Journal of Eastern Mediterranean Archaeology and Heritage Studies* 8(2): 174-199. <https://doi.org/10.5325/jeasmedarcherstu.8.2.0174>
- 2020a **Irvine, B.**, Erdal, Y.S. Multi-isotopic analysis of dietary habits and mobility at third millennium BC Bakla Tepe, West Anatolia. *Archaeological and Anthropological Sciences* 12: 111. <https://doi.org/10.1007/s12520-020-01078-2>
- 2020b **Irvine, B.**, Erdal, Y.S. Analysis of dietary habits in a prehistoric coastal population from İkiztepe, North Turkey, using stable isotopes of carbon, nitrogen, and sulphur. *Journal of Archaeological Science: Reports* 29: 102067. <https://doi.org/10.1016/j.jasrep.2019.102067>
- 2019 Özdemir, K., Erdal, Y.S., Itahashi, Y., **Irvine, B.** A multi-faceted approach to weaning practices in a prehistoric population from İkiztepe, Samsun, Turkey. *Journal of Archaeological Science: Reports* 27: 101982. <https://doi.org/10.1016/j.jasrep.2019.101982>
- 2019 **Irvine, B.**, Erdal, Y.S., Richards, M.P. Dietary habits in the Early Bronze Age (3rd millennium BC) of Anatolia: A multi-isotopic approach. *Journal of Archaeological Science: Reports* 24: 253-263. <https://doi.org/10.1016/j.jasrep.2019.01.015>
- 2018 Coupal, I and **B. Irvine:** Book Review of ‘The archaeology of the Caucasus: from earliest settlements to the Iron Age’, by Antonio Sagona. *American Journal of Archaeology* 122(4). <https://doi.org/10.3764/ajaonline1224.coupal>
- 2014 **Irvine, B.**, Thomas, J-L., Schoop, U-D. A macroscopic analysis of human dentition at Late Chalcolithic Çamlıbel Tarlası, North Central Anatolia, with special reference to dietary and non-masticatory habits. *IANSA* 5(1): 19-30. <https://doi.org/10.24916/iansa.2014.1.2>

Other Peer-Reviewed Journal Articles

- 2022 **Irvine, B.**, Özdemir, K. Kükürt izotop analizlerinin arkeolojide kullanımı [Use of sulphur isotope analysis in archaeology]. *Hacettepe Üniversitesi Edebiyat Fakültesi Dergisi* 39(1): 37-49. <https://doi.org/10.32600/huefd.993690>
- 2022 **Irvine, B.** Investigating a subsistence model of staple finance for the late 4th to early 2nd Millennium BCE of the Greater Near East. *Arkeoloji Bilimleri Dergisi/Turkish Journal of Archaeological Sciences* 2: 52-121. https://en.arkeolojibilimleridergisi.org/_files/ugd/3bec24_54cc7a309a184c54a457ea7c488596ee.pdf
- 2021 **Irvine, B.**, Özdemir, K. Karbon ve azotun sabit izotoplarının geçmiş beslenme alışkanlıkları ve geçim uygulamalarını yeniden yapılandırmak için kullanımı [Using stable isotopes of carbon and nitrogen to reconstruct palaeodietary habits and subsistence practices]. *Antropoloji* 42: 36-48. <https://doi.org/10.33613/antropolojidergisi.1010131>

Chapters in Books/Edited Volumes

- In press Yazıcıoğlu, G.B., **Irvine, B.** Recent isotopic investigations of bioarchaeological remains in Türkiye and the development of the BioIsoANE project. In S. Branting, J.W. Lehner, D. Langis-Barsetti, T. Kalaycı, G.B. Yazıcıoğlu, S.R. Steadman, G. McMahon (eds.) *The Archaeology of Anatolia: Recent Discoveries (2012-2022)*. Cambridge Scholars Press.
- 2024 **Irvine, B.** An isotopic perspective of diachronic changes in dietary habits and subsistence practices in Anatolia. In B. Irvine, Y.S. Erdal, L. Vandeput (eds.) *People of Anatolia: Past, Current, and Future Research in the Biological Anthropology of Türkiye*. British Institute at Ankara Monograph 58. London: British Institute at Ankara, 109-121.
- 2024 **Irvine, B.**, Özdemir, K. Neolitik Çağ'dan Tunç Çağı'na şiddet, savaş ve diyet [Violence, war, and diet from the Neolithic Period to the Bronze Age]. In A. Aykurt, A. Akçay, M. Türkteki, D. Sarı, F. Şahin, A. Yurtsever-Beyazıt, M. Massa, U. Oğuzhanoglu Akay (eds.) *Önasya Arkeolojisi Toplantıları 1: Savaş ve Şiddet*. Ankara: Bilgin Kültür Sanat, 109-140.
- 2023 Ögüt, B., **Irvine, B.**, Braun, R., Jauß, C. Betwixt the chairs: Some thoughts and case studies reflecting on experiences of cooperation between archaeology and the natural sciences. In Editorial Collective (eds.) *What does this have to do with archaeology? Essays on the occasion of the 65th birthday of Reinhard Bernbeck*. Leiden: Sidestone Press, 135-142.

Books/Edited Volumes

- 2024 **B. Irvine**, Y.S. Erdal, L. Vandeput (eds.) *People of Anatolia: Past, Current, and Future Research in the Biological Anthropology of Türkiye*. British Institute at Ankara Monograph 58. London: British Institute at Ankara.
- 2023 Editorial Collective [A. Abar, M. Bangborg Thuesen, G. Cyrus, V. Egbers, J. Eger, I. Heit, **B. Irvine**, C. Kainert, J. Köhler, M. Mishmastnehi, B. Ögüt, S. Parsa, G. Russo, J. Schönicke, S. Schreiber, F. Tourtet, and L. Wolff-Heger] (eds.) *What does this have to do with archaeology? Essays on the occasion of the 65th birthday of Reinhard Bernbeck*. Leiden: Sidestone Press.

TEACHING EXPERIENCE

Teaching and design of modules

- 2022-present “Bioarchaeology” module for the ‘Environmental Archaeology’ **Koç University/ANAMED**’s online teaching programme (ENVARCH101)
- 2022-present “Biological Anthropology” module for the ‘Environmental Archaeology’ **Koç University/ANAMED**’s online teaching programme (ENVARCH101)
- 2022 “Introduction to Biological Anthropology” Independent Study course (SI-291) at **Koç University**

Taught 1-day seminars

- 2024 “Taphonomy: Depositional and Post-Depositional Processes in Archaeology”, **Türkmen-Karahöyük Archaeological Project’s Summer School**
- 2023 “Introduction to Human Osteoarchaeology”, **Middle East Technical University (METU)**’s MA Programme
- 2022 “Applying isotopic analyses to bioarchaeological remains”, **Koç University**.
- 2022 “Human Osteoarchaeology: In the Field and the Lab”, as part of the “**Highway to Science! Scientific archaeology in Turkey**” workshop
- 2019 “Stable Isotopes and Bioarchaeology: Holistic and Scientific Approaches to Archaeology”, part of the module ‘SA 566: Current Approaches in Archaeology’, **METU**

INVITED LECTURES

- 2022 “*Using multi-faceted approaches to investigate staple finance in the prehistoric Near East*” – **METU** Archaeometry Department’s seminar series. January 14th: virtual via Zoom
- 2017 “*Anatolia and the Early Bronze Age*” – **Max Planck Institute for the Science of Human History**, MHAAM (The Max Planck – Harvard Research Center for the Archaeoscience of the Ancient Mediterranean) meeting. December 4th: Jena, Germany

- 2015 “An isotopic analysis of dietary habits in Early Bronze Age Anatolia: Preliminary results from Titriş Höyük and Bademağacı” – March 5th: **BIAA**; Ankara, Türkiye
- 2014 “You are what you eat, you are where you drink. Stable isotopes: Principles and applications in bioarchaeology” – April 30th: **Hacettepe University**, Anthropology Department; Ankara, Türkiye

CONFERENCE AND WORKSHOP ORGANISATION

Academic workshops

- 2022 “**Highway to Science! Scientific archaeology in Turkey**”. February 28th-March 3rd: online lectures via Zoom. March 4th-6th: in-person training in Gaziantep, Türkiye. Co-organiser with Doğa Karakaya and Birgül Öğüt
- 2019 “**Physical Anthropology in Anatolia**”. November 8th: BIAA; Ankara, Türkiye. Lead organiser in collaboration with Yılmaz Selim Erdal (Hacettepe University) and Lutgarde Vandeput (BIAA)

Academic sessions

- 2023-present “**Isotopic Investigations in the Ancient Near East and Caucasus**”. Standing session at the ASOR (American Society of Overseas Research) annual meeting. Co-chair with Bike Yazıcıoğlu
- 2024 “**Agenda-setting economy, landscape, environmental and bioarchaeological archaeologies of the Achaemenid Empire**”. BANE (British Association of Near Eastern Archaeology) annual meeting. January 3rd-5th: Glasgow, UK. Co-chair with Catherine Draycott and Max D. Price
- 2018 “**Bioarchaeological approaches towards understanding diet and subsistence, and their role in the formation of early societies**”. EAA (European Association of Archaeologists) annual meeting. September 5th-8th: Barcelona, Spain. Co-chair with Jennifer Jones (University of Central Lancashire)

CONFERENCE, SYMPOSIUM, AND WORKSHOP PRESENTATION

Papers presented

- 2024 Benjamin Irvine, Kameray Özdemir, Turhan Doğan, Furkan Kulak, Yasin Gökhan Çakan, Ali Metin Büyükkarakaya. “*Sub-adult diet and the weaning process at Neolithic Tepecik-Çiftlik*”. **World Neolithic Congress**. November 4th-8th: Şanlıurfa, Türkiye
- 2024 Kameray Özdemir, Ali Metin Büyükkarakaya, Benjamin Irvine, Turhan Doğan, Furkan Kulak, Can Yümnü Gündem, Yasin Gökhan Çakan. “*Determination of dietary patterns in the Tepecik-Çiftlik Neolithic population through stable isotope analysis*”. **World Neolithic Congress**. November 4th-8th: Şanlıurfa, Türkiye

- 2024 Kameray Özdemir, Benjamin Irvine, Handan Üstündağ, Joris Peters, Necmi Karu. “*Palaeodietary analysis of the Gusir Höyük Neolithic population utilising stable isotope analysis*”. **World Neolithic Congress**. November 4th-8th: Şanlıurfa, Türkiye
- 2024 Benjamin Irvine, Kameray Özdemir, Derya Silibolatlaz-Baykara, Turhan Doğan, Furkan Kulak, Handan Üstündağ, Fikri Kulakoğlu. “*An isotopic perspective of animal management at Kültepe-Kaneş*”. **6th Kültepe International Meeting**. August 2nd-5th: Kültepe (Kayseri), Türkiye
- 2024 Benjamin Irvine, Kameray Özdemir, Derya Silibolatlaz-Baykara, Turhan Doğan, Furkan Kulak, Handan Üstündağ, Fikri Kulakoğlu. “*Stable isotope analysis and animal management at Bronze Age Kültepe-Kaneş*”. **Recent Zooarchaeological Studies in Anatolia**. May 24th: Ankara, Türkiye
- 2023 Benjamin Irvine, Kameray Özdemir, Ali Metin Büyükkarakaya, Yasin Gökhan Çakan, Turhan Doğan, Furkan Kulak, and Erhan Bıçakcı. “*An isotopic examination of the weaning process at Neolithic Tepecik-Çiftlik*”. **VIII. Biyolojik Antropoloji Sempozyumu**. October 26th-27th: Ankara, Türkiye
- 2023 Benjamin Irvine, Kameray Özdemir, Ali Metin Büyükkarakaya, Turhan Doğan, Furkan Kulak, Yasin Gökhan Çakan, and Erhan Bıçakcı. “*Neolitik Dönem Tepecik-Çiftlik topluluğunda süten kesme sürecinin biyojeokimyasal metotla incelenmesi [A biogeochemical investigation of the weaning process at Neolithic Tepecik-Çiftlik]*”. **43. Uluslararası Kazı, Araştırma ve Arkeometri Sempozyumu**. October 16th-20th: Ankara, Türkiye
- 2023 Kameray Özdemir and Benjamin Irvine. “*Tepecik-Çiftlikte yürütülen izotop çalışmalarının sonuçları [Results of isotopic studies from Tepecik-Çiftlik]*”. **Niğde Arkeolojisi ve Kültürel Mirasi Çalıştayı** [Workshop on Niğde Archaeology and Cultural Heritage]. August 4th-5th: Niğde, Türkiye
- 2023 Benjamin Irvine, Rana Özbal, Christina Luke, Christopher H. Roosevelt, Canan Çakırlar, and Felix Pirson. “*Investigating palaeoenvironment and animal management in western Anatolia from the Neolithic to the Roman Period utilising stable isotopes of carbon and nitrogen*”. **ICAZ Stable Isotopes in Zooarchaeology Working Group – Beyond the baseline: Broadening stable isotopic horizons in zooarchaeology**. March 22nd-25th: Berlin, Germany
- 2022 Kameray Özdemir and Benjamin Irvine. “*Neolitik Çağ’dan Tunç Çağı’na kadar şiddet, savaş, ve diyet [Violence, war, and diet from the Neolithic to the Bronze Age]*”. **Önasya Arkeolojisi Toplantıları 1: Savaş ve Şiddet** [Near Eastern Archaeology Meeting 1: War and Violence]. November 17th-18th: Ankara, Türkiye
- 2022 Benjamin Irvine, Doğa Karakaya, and Birgül Ögüt. “*Travelling on the Highway to Science: Isotopes and environmental archaeology in Türkiye*”. **ASOR virtual component of the annual meeting**. October 19th-23rd

- 2022 Benjamin Irvine and Kameray Özdemir. “A synthesis of the application of biogeochemical methods to bioarchaeological materials in Turkey”. **Biomedical Sciences and Methods in Archaeology**. June 9th-11th: Istanbul, Türkiye
- 2021 Bike Yazıcıoğlu and Benjamin Irvine. “*BioIsoANE: A repository of Bioarchaeological Isotopic analysis in the greater Ancient Near East*”. **ASOR** virtual component of the annual meeting. December 9th-12th
- 2021 Benjamin Irvine, Ceren Çilingir, Christina Luke, Rana Özbal, Felix Pirson, and Christopher H. Roosevelt. “*An examination of environment and agriculture in Neolithic to Byzantine Period West Anatolia using $\delta^{13}C$ data from seeds and wood charcoals*”. **ASOR** virtual component of the annual meeting. December 9th-12th
- 2021 Benjamin Irvine and Bike Yazıcıoğlu. “*Comparative perspectives and current trends in multi-isotopic analyses: Towards an integrated bioarchaeological isotope database website for the greater Near East*”. **AEA (Association for Environmental Archaeology) Spring Meeting: Open Science Practices in Environmental Archaeology** virtual symposium. April 24th
- 2021 Nami Shin and Benjamin Irvine. “*Preliminary analysis of stable carbon ($\delta^{13}C$) isotopes of cereal remains from Bronze Age Kaymakçı, western Anatolia*”. **WANAT (Western Anatolia in the Second Millennium BCE: Recent Developments and Future Prospects)** virtual symposium. April 15th-16th
- 2019 “*Staple finance models and subsistence strategies in Bronze Age populations of the Greater Near East*”. **ASOR** annual meeting. November 20th-23rd: San Diego California, USA
- 2019 “*Isotopic perspective of diachronic changes in dietary habits and subsistence practices in Anatolia*”. **Physical Anthropology in Anatolia workshop**. November 8th: Ankara, Türkiye
- 2019 “*An integrative approach to examining staple finance in the Early Bronze Age of Anatolia and adjacent regions*”. **VII. Biyolojik Antropoloji Sempozyumu**. October 23rd-25th: Ankara, Türkiye
- 2019 “*A holistic approach to formulating an economic model of staple finance in the Early-Mid. Bronze Age of the Greater Near East*”. **Broadening Horizons 6**. June 24th-28th: Berlin, Germany
- 2019 Benjamin Irvine and Yılmaz Selim Erdal. “*İlk Tunç Çağı Anadolu'da beslenme alışkanlıklarının artsürekli ve bütünsel bir incelemesi [A diachronic and holistic examination of dietary habits in Early Bronze Age Anatolia]*”. **41. Uluslararası Kazı, Araştırma ve Arkeometri Sempozyumu**. June 17th-21st: Diyarbakır, Türkiye
- 2019 “*Bronze Age dietary habits and the 4.2 ka BP event in Anatolia: an isotopic perspective*”. **4.2 ka BP in Anatolia: the crisis years and aftermath. An international workshop on Bronze Age archaeology**. May 17th-18th: İzmir, Türkiye

- 2019 “Howdy Neighbour – Transgressing borders and peering over the fence to examine the application of isotopic analyses to bioarchaeology in Anatolia”. **SAA (Society for American Archaeology) 84th annual meeting**. April 10th-14th: Albuquerque New Mexico, USA
- 2019 “Dietary habits in Anatolia on the eve of urbanism”. **BANEA** annual meeting. February 22nd-24th: Liverpool, UK
- 2017 “Stable isotopes of sulphur to investigate diet and mobility in Anatolian Early Bronze Age populations”. **ASOR** annual meeting. November 15th-18th: Boston Massachusetts, USA
- 2016 “Multi-isotopic investigations of diet in Anatolian Early Bronze Age populations”. **ASOR** annual meeting. November 16th-19th: San Antonio Texas, USA
- 2016 “Stable isotopic analysis of dietary habits at Early Bronze Age Bakla Tepe”. **38. Uluslararası Kazı, Araştırma ve Arkeometri Sempozyumu**. May 23rd-27th: Edirne, Türkiye
- 2015 “Dietary habits of Early Bronze Age İkiztepe using stable isotope analysis: preliminary results”. **VI. Ulusal Biyolojik Antropoloji Sempozyumu**. October 26th -28th: Ankara, Türkiye
- 2014 “Isotopic analysis of dietary habits in Early Bronze Age Anatolia: preliminary results from Titriş Höyük”. **Day of the Dead: Recent research in Human Osteoarchaeology**. October 17th-19th: Belfast, UK
- 2013 “A macroscopic analysis of human dentition at Çamlıbel Tarlası, north central Anatolia”. **BANEA** annual meeting. January 3rd-5th: Cambridge, UK. (Conference funding awarded)
- 2011 Amy Carbaugh, R. Gomez Martinez, Helen Langstaff, Benjamin Irvine, Nicole Thiemann, and Elena Kranioti. “Dental analysis of two cemetery populations (Via Punica 34 and Joan Planells) from Ibiza, Spain”. **BABAO (British Association for Biological Anthropology and Osteoarchaeology)** annual meeting. September 2nd-4th: Edinburgh, UK

RESEARCH EXPERIENCE

- 2022-2024 Examination of human dietary habits and the weaning process at Neolithic Tepecik-Çiftlik (Türkiye) utilising stable isotopes of carbon ($\delta^{13}\text{C}$) and nitrogen ($\delta^{15}\text{N}$). In collaboration with Ali Metin Büyükkarakaya and Kameray Özdemir (Hacettepe University)
- 2020-2024 PI of the BIAA funded and supported ‘An integrated bioarchaeological isotope database website’ project. Management of the project and budget, and co-designing the website (BioIsoANE), online bibliography, and open access database of published isotope data for the greater Near East. Co-writing content for the website and data entry into the bibliography and database. In collaboration with project co-director, Bike Yazıcıoğlu (Simon Fraser University)

- 2020-2022 Post-Doctoral Environmental Research Fellow on the DAI-ANAMED funded project ‘Humidity and Society: 8,500 Years of Climate History in Western Anatolia’. Bioarchaeological and environmental archaeological analyses and research, including analysis and interpretation of $\delta^{13}\text{C}$ data from archaeobotanical (seeds and wood charcoal) materials and $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ data from faunal (bulk bone collagen) materials. Sample preparation and collagen extraction from faunal osteological material for the stable isotope analyses of carbon and nitrogen, including the training and supervision of Koç University students in the procedures and protocols of this lab work. Contribution to the development of the archaeological science and bioarchaeological facilities at Koç University. Design and construction of a module on ‘Bioarchaeology’ for the Koç University/ANAMED ‘Environmental Archaeology’ online teaching programme (ENVARCH101) and related practical training course in biological anthropology. Dissemination of data and findings through reports, talks, and publications. In collaboration with Felix Pirson (DAI-Istanbul), Christopher H. Roosevelt, Christina Luke, Rana Özbal (Koç University), Semih Çelik (University of Exeter), Ceren Çilingir, and Safoora Kamjan (ANAMED)
- 2018-2020 Post-Doctoral Research Fellow at the BIAA developing and working on a bioarchaeological project examining human-environment interactions in prehistoric Anatolia. Also, writing articles for publication, presenting research at conferences and symposia, and the organisation of a workshop on physical anthropology in Türkiye
- 2018 Human osteological analyses as head of biological anthropology team; demography (age-at-death, sex, etc.), pathology and traumatic injury identification. İznik Roman Theatre excavation, İznik, Türkiye
- 2017-2018 Research Scholar at the BIAA digitising the ceramic collection, and working with the database and archival material
- 2014-2016 Stable isotope lab-work: Sample preparation and collagen extraction of human and faunal osteological material for stable isotope analyses of carbon, nitrogen, and sulphur as part of my doctoral research. Trained and applied at the Max Planck Institute for Human Evolution, Leipzig, Germany
- 2012-2016 Human osteological analyses; demography (age-at-death, sex, etc.), pathology and traumatic injury identification, metric analyses, and sample procurement. Hacettepe University, Department of Anthropology, Ankara, Türkiye
- 2012 Research Scholar at the BIAA digitising the ceramic collection and squeeze archive, working with the database and archival material, and research assistant to the Institute’s director
- 2011 Research Assistant to the head Keeper of Antiquities; work in the museum archives and store crypts and writing short reports. National Museum of Ireland, Dublin, Republic of Ireland

- 2011 Human osteological research assistant providing full osteological analyses (demography – age-at-death, sex etc., pathology and traumatic injury identification, and metric analyses). Via Punica Project, Ibiza, Spain
- 2010 Archaeological research assistant; post-excavation work including ceramic illustration, statistical sorting and documentation of stone tools and ceramic material, ceramic restoration, human osteological analyses and documentation, organisation and transportation of human and faunal osteological samples. Çamlıbel Tarlası Project, Boğazkale Çorum, Türkiye

FIELDWORK EXPERIENCE

- 2024 **Türkmen-Karahöyük Archaeological Project.** Project Director: Michele Massa (Bilkent University, Türkiye). Field supervisor
- 2008-2009 **Çamlıbel Tarlası Project,** Çorum, Türkiye. Project Director: Ulf-Dietrich Schoop (University of Edinburgh, UK). Trench supervisor
- 2007 **Arbeia Roman Fort,** Tyne and Wear Museums, South Shields, UK. Member of the excavation team
- 2006 **South Cadbury Environs Project,** Somerset, UK. Member of the excavation team

REVIEW EXPERIENCE

- 2020-present Journal of Archaeological Science: Reports, Archaeological and Anthropological Sciences, European Journal of Archaeology, Journal of Field Archaeology, International Journal of Osteoarchaeology

ADMINISTRATION EXPERIENCE

- 2020-present Administration and external engagement activities for the ECA (Early Career Archaeologists) group: primarily the website (<https://ecarchaeologists.com>) and social media (<https://www.facebook.com/ECArchaeologist>)
- 2022-2023 Member of the EAA Taskforce to re-design the EAA website. In collaboration with Jesper Hansen (Odense City Museums), Sally Foster (University of Stirling), Matthew Walsh (Aarhus University), Vana Orfanou (University College Dublin), Miyuki Kerkhof (Leiden University), Win Scutt (English Heritage), and Katka Kleinová (EAA)

PUBLIC ENGAGEMENT

- 2022 **Irvine, B.** Kahve falı: The Turkish Tasseography. *ANAMED Blog*. <https://anamedblog.com/post/682603923205423104/kahve-fal%C4%B1-the-turkish-tasseography>

- 2021 **Irvine, B.**, Yazıcıoğlu-Santamaria, B. BioIsoANE: An open-access repository of bioarchaeological isotopic analysis. *Heritage Turkey* 11: 26-27. <https://doi.org/10.18866/biaa2021.12> / https://biaa.ac.uk/wp-content/uploads/2022/01/HT11_12_BioIsoANE.pdf
- 2021 **Irvine, B.** Humidity, society, and more. *ANAMED Newsletter* 12: 7. https://anamed.ku.edu.tr/wp-content/uploads/2022/01/12_eng_summer2021_sayi12.pdf
- 2020 **Irvine, B.** Peaks and troughs: Archaeological science and the ‘new normal’. *Heritage Turkey* 10: 15-17. <https://doi.org/10.18866/biaa2020.08> / https://biaa.ac.uk/wp-content/uploads/2022/01/HT10_08_Archaeological_science.pdf
- 2019 **Irvine, B.** Human-environment interactions in prehistoric Anatolia. *Heritage Turkey* 9: 16-17. <https://doi.org/10.18866/biaa2019.09> / https://biaa.ac.uk/wp-content/uploads/2022/01/HT9_09_Prehistoric_Anatolia.pdf

ACADEMIC SERVICES

- 2021-present Co-founder of the **BioIsoANE** (Bioarchaeological Isotopic analysis in the greater Ancient Near East) website.
- 2020-present Member of the **ECA** group. Administration and external engagement activities - website (<https://ecarchaeologists.com>) and social media (<https://www.facebook.com/ECArchaeologist>).
- 2016-present Key member of the international and interdisciplinary **AIWG** (Archaeological Isotopes Working Group).

LANGUAGES

- English (mother tongue)
- Turkish (intermediate speaking and listening, basic reading and writing)
- French (intermediate speaking and listening, basic reading and writing)
- German (basic speaking, reading, and writing).

PROFESSIONAL MEMBERSHIPS

- American Society of Overseas Research (ASOR) since 2016
- British Association of Near Eastern Archaeology (BANEAE) since 2012
- British Institute at Ankara (BIAA) since 2012
- British Mass Spectrometry Society (BMSS) since 2016
- European Association of Archaeologists (EAA) since 2014
- Society for American Archaeology (SAA) since 2018