

**M. Erdem KABADAYI, Ph.D.**



Professor, Department of History, Koç University

Honorary Associate Professor, School of Geographical and Earth Sciences, University of Glasgow

Principal Investigator of the European Research Council Starting Grant Project, UrbanOccupationsOETR ([urbanoccupations.ku.edu.tr](http://urbanoccupations.ku.edu.tr)) & Proof of Concept Grant Project, [GeoAI\\_LULC\\_Seg](http://GeoAI_LULC_Seg)

Koç University, Department of History, SOS 136, Rumelifeneri Yolu, Sariyer, 34450 Istanbul, Turkey

[mkabadayi@ku.edu.tr](mailto:mkabadayi@ku.edu.tr) / ORCID ID: 0000-0003-3206-0190

**EDUCATION, EXAMS & CERTIFICATIONS**

06/02/2023 Professor of History, Koç University

20/04/2011 Associate Professor of Economic History and History of Economic Thought (granted by the Inter-University Council of Turkey after a positive evaluation of publications and an oral examination)

11/08/2008 PhD, History and Culture of the Middle East and Turkology, Munich Ludwig Maximilian University. Thesis: ‘Working for the state in a factory in Istanbul: The role of factory workers’ ethno-religious and gender characteristics in state-subject interaction in the late Ottoman Empire,’ supervised by Prof. Dr. Suraiya Faroqhi

13/11/1999 MSc in Economics, University of Vienna. Thesis: ‘Aspects of proto-industrialization in the Ottoman Empire, 1800-1914. Patterns of proto industrial textile production in the Balkan Lands and West Anatolia’, supervised by Prof. Dr. Dieter Stiefel / Dr. Markus Cerman

02/07/1995 BSc in Economics, Middle East Technical University, Ankara

**RESEARCH GRANTS**

**GeoAI\_LULC\_Seg:** *A GeoAI-based Land Use Land Cover Segmentation Process to Analyse and Predict Rural Depopulation, Agricultural Land Abandonment, and Deforestation in Bulgaria and Turkey, 1940-2040*, European Research Council – Proof of Concept Grant (ERC-2022-POC2), planned for October 2022 – March 2024, Nr. 101100837, (150,000 Euro), one of the only five ERC Proof of Concept Grants in the category of Study of the Human Past in Social Sciences and Humanities between 2014 and 2022

**UrbanOccupationsOETR:** *Industrialisation and Urban Growth from the mid-nineteenth century Ottoman Empire to Contemporary Turkey in a Comparative Perspective, 1850-2000*, European Research Council - Starting Grant (ERC-2015-StG), Nr. 679097, October 2016 - September 2022, (1,497,500 Euro), the first ERC funded research project on the economic and demographic history of the Ottoman Empire

*Recovering Armenians in Late Ottoman Istanbul and Making Ottoman-Era Population Data Available for All* funded by the Calouste Gulbenkian Foundation, co-investigator Daniel Ohanian, 2015 – 2018, (28,000 USD)

*An Introduction to the Occupational History of Turkey via New Methods and New Approaches (1840 - 1940)* funded by the Scientific and Technological Research Council of Turkey (TÜBİTAK) Project Nr. 112K271, October 2012 – October 2015, (234,000 TL)

*Labour Relations in nineteenth-century Ottoman Towns: 1845 Household Occupation and Income Statistics*, Istanbul Bilgi University Seed Fund with a contribution from the International Institute of Social History, Amsterdam, July 2009 – December 2010, (12,300 Euro)

## **FELLOWSHIPS, AWARDS & SCHOLARSHIPS**

2020 Outstanding Faculty Award, College of Social Sciences and Humanities, Koç University

Best Scientific Article Prize the Ottoman Bank Archives and Research Centre on History of Banking and Finance, 2004-05

01/10/2015 – 01/10/2016 Sabbatical as a visiting scholar at the Cambridge Group for the History of Population and Social Structure, Faculty of History, University of Cambridge

11/06/2014 – 11/09/2014 British Council, Researcher Links, Travel Grant  
Visiting Scholar at the Cambridge Group for the History of Population and Social Structure, Faculty of History, University of Cambridge

01/10/2003 – 28/02/2006 Fellow, Research Training Group on Slavery, Serfdom and Forced Labor (*Deutsche Forschungsgemeinschaft, Graduiertenkolleg 846*), Trier University

01/07/2004 – 30/09/2004 Fellow, American Research Institute in Turkey, Aegean Exchange, Research in the State Archives (Ottoman Documentation) in Salonica

01/10/2000 - 30/09/2002 Research Grant – Doctoral Programs, German Academic Exchange Service (*DAAD*)

01/10/1999 - 30/09/2000 Graduate Scholarship, Austrian Hammer-Purgstall Oriental Society, Vienna, Austria

01/10/1995 - 30/09/1999 One-World Scholarship, Afro-Asian Institute, Vienna, Austria

## **SUPERVISION and BOARD MEMBERSHIPS**

### **Project Supervision**

The Scientific and Technological Research Council of Turkey (TÜBİTAK) 1001 project, 112K381, *Shipbuilding and Labour Migration in the Ottoman Black Sea Coast and Istanbul, 1827-1878*, hosted at the Department of History, Koç University, 2021-2024. Dr. Akın Sefer is the principal investigator.

The Scientific and Technological Research Council of Turkey (TÜBİTAK) 1001 project, 671561, *Analysis of the Socio-Economic, Demographic and Spatial Transformation of Tahtakale in Modernized Istanbul, 1876-1918*, hosted at the Yıldız Technical University, 2023-2026. Prof. Dr. Nalan Turna is the principal investigator.

### **Postdoctoral Mentorship**

Horizon 2020 Marie Skłodowska-Curie Widening Fellowship, 2018-2020, POPGEO\_BG, ID 867474, Population Geography of Bulgaria, 1500- 1920: A Historical Spatial Analysis, by Dr. Grigor Boykov, hosted at the Department of History, Koç University between 1<sup>st</sup> June 2019 and 31<sup>st</sup> October 2019. Dr. Boykov terminated the fellowship due to obtaining a position at the Austrian Academy of Sciences.

## **Board Memberships**

Executive board member of the Center for Computational Social Sciences, Koç University (the first computational social sciences research center established in Turkey), since January 2023

Advisory board member of the Society for Turkic, Ottoman and Turkish Studies (GTOT, Section Digital Humanities and Ottoman/Turkish Studies), since October 2021

Advisory board member of the ANAMED (Koç University, Research Center for Anatolian Civilizations), 2018-2021

## **ACADEMIC COLLABORATIONS**

The European Network for the Comparative History of Population Geography and Occupational Structure 1500-1900 (ENCHOS)

<http://www.campop.geog.cam.ac.uk/research/projects/occupations/international/enchpopgos/>

The International Network for the Comparative History of Occupational Structure (INCHOS)

<http://www.geog.cam.ac.uk/research/projects/occupations/international/inchos/>

The Global Collaboratory on the History of Labour Relations

<https://collab.iisg.nl/web/labourrelations>

## **RESEARCH & SCIENTIFIC COMMITTEES**

*Referee*, Social Sciences and Humanities Research Funding Program Directorate, the Scientific and Technological Research Council of Turkey (TUBITAK)

*Chairman*, the Economic History Network, European Social Science History Conference (2016-2022)

<https://esshc.socialhistory.org/networks/economic-history>

*Member*, COST Action CA19112, Women on the Move, a transdisciplinary network of European researchers who focus on historic and contemporary female labour mobility spanning six centuries to the present (2020-2022)

<https://www.cost.eu/actions/CA19112>

Scientific advisory committee member of the Congress on Ottoman Studies

[\(https://www.osmanliarastirmalari.org/en/\)](https://www.osmanliarastirmalari.org/en/)

## **EDITING & REVIEWING**

International Review of Social History, corresponding editor

International Labor and Working-Class History

Journal of Ottoman Studies

Journal of the Ottoman and Turkish Studies Association (JOTSA)

Journal of Transport History

New Perspectives on Turkey

## **ADMINISTRATIVE DUTIES, KOÇ UNIVERSITY**

01/08/2017 – present Board member, Vehbi Koç Ankara Studies Research Center

01/11/2022 – present Board member, Computational Social Sciences Application and Research Center

## **PREVIOUS POSITIONS, KOÇ UNIVERSITY**

01/08/2017 – 28/02/2022 Coordinator of PhD in History Program

## PREVIOUS POSITIONS, ISTANBUL BILGI UNIVERSITY, DEPARTMENT OF HISTORY

01/10/2011 – 31/12/2015	Associate Professor
01/10/2008 – 01/10/2015	Director of the MA Program in History
01/10/2008 – 01/10/2015	Department Erasmus Coordinator
01/10/2008 – 30/09/2011	Assistant Professor
01/10/2006 – 30/09/2008	Instructor
01/03/2006 – 30/09/2006	Teaching Assistant

## LANGUAGE SKILLS

Turkish (advanced Ottoman reading skills), English, German

## PUBLICATIONS

### Peer reviewed journal articles

18- Sefer, Akın, Efe Erünal, and M. Erdem Kabadayı. "Mid-Nineteenth-Century Gemlik and Its Environs: A Survey of a West Anatolian Region and Its Long-Term Economic and Demographic Development." *Journal of Balkan and Near Eastern Studies*, accepted on January 15, 2023.

*Scimago Q1, History*

Impact factor (2021): **0.990**, 5-year impact factor (2021): **1.170**

Indexed by among others Social Science Citation Index

17-Kabadayı, Mustafa Erdem, Paria Ettehadi Osgouei, and Elif Sertel. "Agricultural Land Abandonment in Bulgaria: A Long-Term Remote Sensing Perspective, 1950–1980." *Land*, Special Issue Modeling Land Use Change Using Historical and Archaeological Datasets, 11, no. 10 (October 2022): 1855. <https://doi.org/10.3390/land11101855>.

*Scimago Q2, Ecology*

Impact factor (2021): **3.905**, 5-year impact factor (2021): **4.048**

Indexed by among others Social Science Citation Index

16- Sertel, Elif, Burak Ekim, Paria Ettehadi Osgouei, and M. Erdem Kabadayı. "Land Use and Land Cover Mapping Using Deep Learning Based Segmentation Approaches and VHR Worldview-3 Images." *Remote Sensing* 14, no. 18 (2022): 4558. <https://doi.org/10.3390/rs14184558>.

*Scimago Q1, Earth and Planetary Sciences*

Impact factor (2021): **5.349**, 5-year impact factor (2021): **5.5786**

Indexed by among others Science Citation Index Expanded

15- Avcı, Cengiz, Elif Sertel, and M. Erdem Kabadayı. "Deep Learning Based Road Extraction from Historical Maps." *IEEE Geoscience and Remote Sensing Letters (GRSL)*, 2022.

<https://doi.org/10.1109/LGRS.2022.3204817>.

*Scimago Q1, Electrical and Electronic Engineering / Geotechnical Engineering and Engineering Geology*

Impact factor (2021): **5.343**

Indexed by among others Science Citation Index Expanded

14- Kabadayı, M Erdem, Piet Gerrits, and Grigor Boykov. "Geospatial Mapping of a 16th Century Transport Corridor for Southeast Europe." *Digital Scholarship in the Humanities* 37, no. 3 (September 2022): 788–812. <https://doi.org/10.1093/llc/fqab084>.

*Scimago Q1, Language and Linguistics*

Impact factor (2021): **1.299**

Indexed by among others Social Science Citation Index

13- Ettehadi Osgouei, Paria, Elif Sertel, and M. Erdem Kabadayı. “Integrated Usage of Historical Geospatial Data and Modern Satellite Images Reveal Long-Term Land Use/Cover Changes in Bursa/Turkey, 1858–2020.” *Scientific Reports* 12, no. 1 (May 31, 2022): 9077. <https://doi.org/10.1038/s41598-022-11396-1>.

*Scimago Q1, Multidisciplinary*

5-year impact factor (2021): **5.516**

Indexed by among others Web of Science

12- Ustaoglu, Eda, and Mustafa Erdem Kabadayı. “Reconstruction of Residential Land Cover and Spatial Analysis of Population in Bursa Region (Turkey) in the Mid-Nineteenth Century.” *Land* 10, no. 10 (October 2021): 1077. <https://doi.org/10.3390/land10101077>.

*Scimago Q2, Ecology*

5-year impact factor (2021): **4.048**

Indexed by among others Social Science Citation Index

11- Can, Yekta Said, and M. Erdem Kabadayı. “Automatic Estimation of Age Distributions from the First Ottoman Empire Population Register Series by Using Deep Learning.” *Electronics* 10, no. 18 (September 2021): 2253. <https://doi.org/10.3390/electronics10182253>.

*Scimago Q2, Computer Networks and Communications*

5-year impact factor (2021): **2.657**

Indexed by among others Science Citation Index Expanded

10- Ekim, Burak, Elif Sertel, and M. Erdem Kabadayı. “Automatic Road Extraction from Historical Maps Using Deep Learning Techniques: A Regional Case Study of Turkey in a German World War II Map.” *ISPRS International Journal of Geo-Information* 10, no. 8 (August 2021): 492. <https://doi.org/10.3390/ijgi10080492>.

*Scimago Q1, Earth and Planetary Sciences (miscellaneous)*

5-year impact factor (2021): **3.165**

Indexed by among others Science Citation Index Expanded

9- Ustaoglu, Eda, M. Erdem Kabadayı, and Petrus Johannes Gerrits. ‘The Estimation of Non-Irrigated Crop Area and Production Using the Regression Analysis Approach: A Case Study of Bursa Region (Turkey) in the Mid-Nineteenth Century’. *PLOS ONE* 16, no. 4 (2021): e0251091. <https://doi.org/10.1371/journal.pone.0251091>.

*Scimago Q1, Multidisciplinary*

Impact factor (2021): **3.752**

Indexed by among others Web of Science

8- Can, Yekta Said, Petrus Johannes Gerrits, and M. Erdem Kabadayı. ‘Automatic Detection of Road Types from the Third Military Mapping Survey of Austria-Hungary Historical Map Series with Deep Convolutional Neural Networks’. *IEEE Access* 9 (2021): 62847–56. <https://doi.org/10.1109/ACCESS.2021.3074897>.

*Scimago Q1, Computer Science (miscellaneous)*

Impact factor (2021): **3.476**

Indexed by among others Science Citation Index Expanded

7- Sefer, Akın, Aysel Yıldız, and Mustafa Erdem Kabadayı. ‘Labor Migration from Kruševo: Mobility, Ottoman Transformation, and the Balkan Highlands in the 19th Century’. *International Journal of Middle East Studies* 53, no. 1 (2021): 73–87. <https://doi.org/10.1017/S0020743820000847>.

*Scimago Q1, History*

5-year impact factor (2021): **1.541**

Indexed by among others Social Science Citation Index

6- Kabadayı, M. Erdem, Piet Gerrits, and Grigor Boykov. ‘Bridging the Gap between Pre-Census and Census-Era Historical Data: Devising a Geo-Sampling Model to Analyse Agricultural Production in the Long Run for Southeast Europe, 1840–1897’. *International Journal of Humanities and Art Computing. A Journal of Digital Humanities. Geospatial Humanities USGIS Special Issue* 14, no. 1–2 (2020): 46–63, <https://doi.org/10.3366/ijhac.2020.0244>.  
*Scimago Q3, Arts and Humanities (miscellaneous)*

Impact factor (2021): **0.80**

Indexed by among others Arts and Humanities Citation Index

5- Can, Yekta Said, and M. Erdem Kabadayı. ‘CNN-Based Page Segmentation and Object Classification for Counting Population in Ottoman Archival Documentation’. *Journal of Imaging* 6, no. 5 (May 2020): 32 <https://doi.org/10.3390/jimaging6050032>.

*Scimago Q2, Computer Graphics and Computer-Aided Design*

Indexed by among others Emerging Sources Citation Index

4- Can, Yekta Said, and M. Erdem Kabadayı. ‘Automatic CNN-Based Arabic Numeral Spotting and Handwritten Digit Recognition by Using Deep Transfer Learning in Ottoman Population Registers’. *Applied Sciences. Special Issue: Advances in Image Processing, Analysis and Recognition Technology* 10, no. 16 (2020), <https://doi.org/10.3390/app10165430>.

*Scimago Q2, Computer Science Applications*

5-year impact factor (2021): **2.921**

Indexed by among others Emerging Sources Citation Index

3- Ohanian, Daniel, Z. Mehmet Başkurt, and M. Erdem Kabadayı. ‘An Historical Geographic Information System for Ottoman Studies. The c. 1907 Ottoman Census and Armenian Settlement in Istanbul’. *Turcica. Revue d’études Turques - Peuples, langues, cultures, États* 51 (2020): 255–83, <https://doi.org/10.2143/TURC.51.0.3288390>.

Indexed by among others Historical Abstracts and Index Islamicus

2- Kabadayı, M. Erdem. ‘Working for the State in the Urban Economies of Ankara, Bursa, and Salonica: From Empire to Nation State, 1840s–1940s’. *International Review of Social History* 61, no. S24 (2016): 213–241, <https://doi.org/10.1017/S002085901600047X>.

*Scimago Q1, History*

Impact factor (2021): **0.70**

Indexed by among others Social Science Citation Index

1- Kabadayı, M. Erdem. ‘Working in a Fez Factory in Istanbul in the Late Nineteenth Century: Division of Labour and Networks of Migration Formed along Ethno-Religious Lines’. *International Review of Social History* 54, no. Supplement S17 (2009): 69–90, <https://doi.org/10.1017/S0020859009990241>.

*Scimago Q1, History*

Impact factor (2021): **0.70**

Indexed by among others Social Science Citation Index

### **Edited volumes**

3- Leda Papastefanaki and M. Erdem Kabadayı, eds. *Working in Greece and Turkey: A Comparative Labour History from Empires to Nation States, 1840 – 1940*, International Studies in Social History Edited by Marcel van der Linden (New York, Oxford: Berghahn Books, 2020).

2- Eleni Gara, M. Erdem Kabadayı, Christoph K. Neumann eds. *Popular Protest and Political Participation in the Ottoman Empire. Studies in Honor of Suraiya Faroqhi*, Istanbul: Istanbul Bilgi University Press, 2011.



1- M. Erdem Kabadayı and Tobias Reichardt, eds. *Unfreie Arbeit. Ökonomische und kulturgeschichtliche Perspektiven*, Hildesheim: Olms Verlag, 2007.

**Other publications (periodicals, book chapters, proceedings & reports)**

29- Kabadayı, M. Erdem, Grigor Boykov, and Piet Gerrits. “Digital History, GIS and Spatial Humanities: Mapping Historical Population Geography of Two Regions in Bulgaria, 1840-1934.” In *The Cambridge Companion to Ottoman History*, edited by Alexis Wick. Cambridge: Cambridge University Press, accepted for publication.

28- Can, Yekta Said, and Mustafa Erdem Kabadayı. “Text Detection and Recognition by Using CNNs in the Austro-Hungarian Historical Military Mapping Survey.” In *The 6th International Workshop on Historical Document Imaging and Processing*, 25–30. HIP '21. New York, NY, USA: Association for Computing Machinery, 2021. <https://doi.org/10.1145/3476887.3476904>.

27- Güvenç, Murat, and M. Erdem Kabadayı. “Reading and Mapping Mid-Nineteenth Century Ottoman Tax Registers: An Early Attempt toward Building a Digital Research Infrastructure for Ottoman Economic and Social History.” In *Digital Historical Research on Southeast Europe and the Ottoman Space*, edited by Dino Mujadžević, 35:167–201. Studies on Language and Culture in Central and Eastern Europe. Berlin: Peter Lang, 2021.

26- Can, Yekta Said, and M. Erdem Kabadayı. “Line Segmentation of Individual Demographic Data from Arabic Handwritten Population Registers of Ottoman Empire.” In *Document Analysis and Recognition – ICDAR 2021 Workshops*, edited by Elisa H. Barney Smith and Umapada Pal, 312–21. Lecture Notes in Computer Science. Cham: Springer International Publishing, 2021. [https://doi.org/10.1007/978-3-030-86198-8\\_22](https://doi.org/10.1007/978-3-030-86198-8_22).

25- Ma, Jilian, Akın Sefer, and M. Erdem Kabadayı. “Geolocating Ottoman Settlements: The Use of Historical Maps for Digital Humanities.” In *Proceedings of the 8th International Symposium of the International Cartography Commission on the History of Cartography “Mapping the Ottoman Realm: Travelers, Cartographers and Archaeologists” 21–23 April 2020, Istanbul, Turkey (Rescheduled for December 2021, Florence, Italy)*, edited by Imre Josef Demhardt, Vol. 3. Göttingen: Copernicus Publications, 2021. <https://doi.org/10.5194/ica-proc-3-10-2021>.

24- Kabadayı, M. Erdem, Piet Gerrits, Osman Özkan, and Turgay Koçak. “A Preliminary Attempt to Construct a Geospatial, Multimodal Ottoman Transport Network for 1899.” In *Spatial Webs: Mapping Anatolian Pasts for Research and the Public*, edited by Christopher H. Roosevelt, 115–28. Koç University Research Center for Anatolian Civilizations (ANAMED). Istanbul: Koç University Press, 2021.

23- Kabadayı, M. Erdem. ‘20. Yüzyılda Türkiye Ekonomisinde Mesleki Yapısal Dönüşüm’ [Occupational Structural Change in the Turkish Economy in the twentieth century]. In *İktisat Tarihinin Dönüşü. Yeni Yaklaşımlar ve Tartışmalar* [The Turn of the Economic History. New Approaches and New Debates], edited by Ulaş Karakoç and Alp Yücel Kaya, 163–96. Istanbul: İletişim Yayınları, 2021.

22- Kabadayı, M. Erdem, Piet Gerrits, Osman Özkan, and Turgay Koçak. ‘1899 Yılı Osmanlı İmparatorluğu İçin Jeomekansal ve Çok Modlu Bir Ulaşım Ağı Oluşturma Denemesi’. In *Mekânsal Ağlar: Araştırma ve Kamu Erişimi İçin Anadolu'nun Geçmişinin Haritalandırılması*, edited by Christopher H. Roosevelt, 137–50. Istanbul: Anadolu Medeniyetleri Araştırma Merkezi, 2020.

- 21- Can, Y. S., and M. E. Kabadayı. “Developing an Automatic Layout Analysis System for Ottoman Population Registers.” In *2020 28th Signal Processing and Communications Applications Conference (SIU)*, 1–4, 2020. <https://doi.org/10.1109/SIU49456.2020.9302464>.
- 20- Can, Y. S., and M. Erdem Kabadayı. ‘Curation of Historical Arabic Handwritten Digit Datasets from Ottoman Population Registers: A Deep Transfer Learning Case Study’. In *2020 IEEE International Conference on Big Data (Big Data)*, 1853–60, 2020. <https://doi.org/10.1109/BigData50022.2020.9378445>.
- 19- Stratoulis, D., and M. E. Kabadayı. ‘Land Cover Feature Extraction from Corona Spy Satellite Images During the Cold WAR - 1968’. In *IGARSS 2020 - 2020 IEEE International Geoscience and Remote Sensing Symposium*, 6069–72, 2020. <https://doi.org/10.1109/IGARSS39084.2020.9324485>.
- 18- Papastefanaki, Leda, and M. Erdem Kabadayı. ‘Introduction and Historiographical Essay: Greek and Turkish Economic and Social History, and Labour History’. In *Working in Greece and Turkey: A Comparative Labour History from Empires to Nation States, 1840 - 1940*, edited by Leda Papastefanaki and M. Erdem Kabadayı, 33:1–57. International Studies in Social History Edited by Marcel van der Linden. New York, Oxford: Berghahn Books, 2020.
- 17- Kabadayı, M. Erdem, and Murat Güvenç. ‘Ethno-Religious Division of Labour in Urban Economies of the Ottoman Empire in the Nineteenth Century’. In *Working in Greece and Turkey: A Comparative Labour History from Empires to Nation States, 1840 - 1940*, edited by Leda Papastefanaki and M. Erdem Kabadayı, 33:204–29. International Studies in Social History Edited by Marcel van der Linden. New York, Oxford: Berghahn Books, 2020.
- 16- Papastefanaki, Leda, and M. Erdem Kabadayı. ‘Epilogue’. In *Working in Greece and Turkey: A Comparative Labour History from Empires to Nation States, 1840 - 1940*, edited by Leda Papastefanaki and M. Erdem Kabadayı, 452–57. International Studies in Social History Edited by Marcel van der Linden. New York, Oxford: Berghahn Books, 2020, pp. 452-457.
- 15- Stratoulis, Dimitris, and M. Erdem Kabadayı. ‘Feature and Information Extraction for Regions of Southeast Europe from Corona Satellite Images Acquired in 1968’. In *Eighth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2020)*, 11524:115241R. International Society for Optics and Photonics, 2020. <https://doi.org/10.1117/12.2571209>.
- 14- Can, Y. S., and M. E. Kabadayı. ‘Developing an Automatic Layout Analysis System for Ottoman Population Registers’. In *2020 28th Signal Processing and Communications Applications Conference (SIU)*, 1–4, 2020. <https://doi.org/10.1109/SIU49456.2020.9302464>.
- 13- Can, Yekta Said, and Mustafa Erdem Kabadayı. ‘Computerized Counting of Individuals in Ottoman Population Registers with Deep Learning’. In *Document Analysis Systems*, edited by Xiang Bai, Dimosthenis Karatzas, and Daniel Lopresti, 277–90. Lecture Notes in Computer Science. Cham: Springer International Publishing, 2020. [https://doi.org/10.1007/978-3-030-57058-3\\_20](https://doi.org/10.1007/978-3-030-57058-3_20).
- 12- Kabadayı, M. Erdem. “Yeni Yöntemler ve Bakış Açıları Işığında Osmanlı İmparatorluğu’ndan Cumhuriyet’e Türkiye Meslekler Tarihine Giriş (1840-1940).” ARDEB, 1001. The Scientific and Technological Research Council of Turkey (TÜBİTAK), 2015. <https://app.trdizin.gov.tr/proje/TVRRM05EUTA>.
- 11- Kabadayı, M. Erdem. ‘Working from Home: Division of Labor among Female Workers of Feshane in Late Nineteenth-Century Istanbul’. In *A Social History of Late Ottoman Women: New*



*Perspectives*, edited by Duygu Köksal and Anastasia Falierou, 54:65–81. The Ottoman Empire and Its Heritage. Leiden: Brill, 2013.

10- Kabadayı, M. Erdem, and Kate Elizabeth Creasey. ‘Working in the Ottoman Empire and in Turkey: Ottoman and Turkish Labor History within a Global Perspective’. *International Labor and Working-Class History* 82 (2012): 187–200, <https://doi.org/10.1017/S0147547912000543>.

9- Gara, Eleni, Christoph K. Neumann, and M. Erdem Kabadayı. ‘Introduction. Ottoman Subjects as Political Actors: Historiographical Representations’. In *Popular Protest and Political Participation in the Ottoman Empire: Studies in Honor of Suraiya Faroqhi*, edited by Eleni Gara, M. Erdem Kabadayı, and Christoph K. Neumann, 1–37. Istanbul: Istanbul Bilgi University Press, 2011.

8- Kabadayı, M. Erdem. ‘Petitioning as Political Action: Petitioning Practices of Workers in Ottoman Factories’. In *Popular Protest and Political Participation in the Ottoman Empire: Studies in Honor of Suraiya Faroqhi*, edited by Eleni Gara, M. Erdem Kabadayı, and Christoph K. Neumann, 57–74. Istanbul: Istanbul Bilgi University Press, 2011.

7- Kabadayı, M. Erdem. ‘Introduction of Merino Sheep Breeding in the Ottoman Empire: Successes and Failures’. In *Animals and People in the Ottoman Empire*, edited by Suraiya Faroqhi, 153–69. Istanbul: Eren, 2010.

6- Kabadayı, M. Erdem. ‘İplikhane-i Amire Fabrikası. Haliç’te Uzun İnce Bir Hapishane’ [Imperial Yarn Factory. One long Penitentiary in the Golden Horn]. *NTV Tarih*, no. 1 (2009): 46–47.

5- Kabadayı, M. Erdem. ‘Mkrdich Cezayirliyan or the Sharp Rise and Sudden Fall of an Ottoman Entrepreneur’. In *Merchants in the Ottoman Empire*, edited by Suraiya Faroqhi and Gilles Veinstein, XV:281–99. Collection Turcica. Leuven: Peeters, 2008.

4- Kabadayı, M. Erdem, and Tobias Reichardt. ‘Einleitung’ [Introduction]. In *Unfreie Arbeit. Ökonomische und Kulturgeschichtliche Perspektiven* [Unfree Labour. Economic and Cultural History Perspectives], edited by M. Erdem Kabadayı and Tobias Reichardt, VII–XIV. Hildesheim: Olms Verlag, 2007.

3- Kabadayı, M. Erdem. “Unfreie Arbeit in den staatlichen Fabriken im Istanbul des 19. Jh.” [Unfree Labour in State Factories of the nineteenth-century Istanbul] In *Unfreie Arbeit. Ökonomische und kulturgeschichtliche Perspektiven* [Unfree Labour. Economic and Cultural History Perspectives], edited by M. Erdem Kabadayı and Tobias Reichardt, Hildesheim: Olms Verlag, 2007.

2- Kabadayı, M. Erdem. “Mobility and Resistance in the Light of Ottoman Settlement Policies in the second half of the nineteenth century: The Transfer of Agricultural Labourers from Syria to Dobrudja.” In *Ottoman Rural Societies*, edited by Mohammad Afifi, Rachida Chih, Brigitte Marino, Nicolas Michel, Işık Tamdoğan, Cairo: IFAO, 2005.

1- Kabadayı, M. Erdem. ‘Nascent Factories, Labour Recruitment and Ottoman Industrial Policy in the Wake of Tanzimat’. In *IXth International Congress of Economic and Social History of Turkey Dubrovnik - Croatia, 20-23 August, 2002*, 263–72. Ankara: Türk Tarih Kurumu, 2005.

## **PUBLIC DATASETS**

Kabadayı, M. Erdem, Grigor Boykov, Akın Sefer, and Piet Gerrits.

“Kabadayı\_Boykov\_Sefer\_Gerrits\_Ottoman\_NFS\_Gazetteer\_23112022\_16296\_populated\_places\_version\_1.” Zenodo, November 23, 2022. <https://doi.org/10.5281/zenodo.7351936>.

Kabadayı, M. Erdem, Piet Gerrits, and Grigor Boykov.  
“UrbanOccupationsOETR\_1532\_Ottoman\_campaign\_1840s\_settlements\_dataset.” Zenodo, September 14, 2022. <https://doi.org/10.5281/zenodo.7079747>.

Can, Yekta Said, M. Erdem Kabadayı, and Osman Özkan.  
“UrbanOccupationsOETR\_KWS\_400\_Occupational\_titles\_Manisa\_dataset.” Zenodo, September 14, 2022. <https://doi.org/10.5281/zenodo.7079179>.

Can, Yekta Said, Piet Gerrits, and Kabadayı M. Erdem.  
“UrbanOccupationsOETR\_Generalkarte\_DCNN\_dataset.” Zenodo, September 13, 2022. <https://doi.org/10.5281/zenodo.7073747>.

Can, Yekta Said, and Kabadayı M. Erdem.  
“UrbanOccupationsOETR\_hdr\_Nicaea\_6k\_dataset.” Zenodo, September 13, 2022. <https://doi.org/10.5281/zenodo.7073677>.

Ekim, Burak, Elif Sertel, and M. Erdem Kabadayı.  
“UrbanOccupationsOETR\_Deutsche\_Heereskarte\_200\_Turkey.” Zenodo, September 12, 2022. <https://doi.org/10.5281/zenodo.7072623>.

Can, Yekta Said, and M. Erdem Kabadayı.  
“UrbanOccupationsOETR\_Generalkarte\_MapText\_DCNN\_dataset.” Zenodo, September 12, 2022. <https://doi.org/10.5281/zenodo.7072541>.

Kabadayı, M. Erdem, Eda Ustaoglu, and Piet Gerrits. “UrbanOccupationsOETR\_1844/45 Bursa Region Temettuat Agricultural Production Dataset.” Zenodo, September 12, 2022. <https://doi.org/10.5281/zenodo.7072520>.

Kabadayı, M. Erdem, Akın Sefer, and Efe Erünel.  
“UrbanOccupationsOETR\_Temettuat\_Agricultural\_Production\_Dataset\_Gemlik\_KumlaSagir\_Kurs unlu\_070922.” Zenodo, September 8, 2022. <https://doi.org/10.5281/zenodo.7059183>.

## **ORGANISATION OF INTERNATIONAL CONFERENCES, WORKSHOPS, SUMMER SCHOOLS**

27/09/2019 – 29/09/2019 *European Network for the Comparative History of Population Geography and Occupational Structure (ENCHOS-III)*. International Conference at Koç University

12/08/2018 – 19/08/2018 (co-organized with Nelly Hanna) *Spatial History, Museums and Heritage Management in the Eastern Mediterranean*. Koç University, American University of Cairo, Mohammed Ali Research Centre (MOHA) Kavala, Summer School

18/06/2017 *Studies in Late Ottoman Demography*. International Workshop at Koç University

02/05/2015 – 03/05/2015 *History of Occupations and Occupations in the Ottoman Empire and Turkey*. Workshop organized with Suraiya Faroqhi at the History Department of Istanbul Bilgi University

10/11/2014 – 12/11/2014 *Bringing Mughal and Ottoman History Together*. International conference organized with Suraiya Faroqhi at the at the History Department of Istanbul Bilgi University

30/11/2012 – 01/12/2012 *The Working World: A Mini Symposium on Work, Occupations, and Labour Relations in Eurasia between 1500 and 2000*. International conference organized at the

History Department of Istanbul Bilgi University

18/11/2011 – 20/11/2011 *Working in the Ottoman Empire and Turkey: Ottoman and Turkish Labour History within a Global Perspective*. International conference organized at the History Department of Istanbul Bilgi University with academic and financial support by Orient-Institut Istanbul, Re:work International Research Center *Work and Human Lifecycle in Global History* Humboldt University Berlin, and TÜSTAV (Social History Research Foundation of Turkey) in cooperation with Kate E. Creasey

15/12/2010 – 18/12/2010 *Urban Landscapes of Modernity. Istanbul and the Ruhr Area 2010*. International conference organized at the History Department of Istanbul Bilgi University, Orient-Institut Istanbul and the Library of the Ruhr Foundation, in cooperation with Malte Fuhrmann and Jürgen Mittag

20/10/2005 – 22/10/2005 *Unfree Labor: Perspectives in Economics, Law and Humanities*. International and Interdisciplinary Conference of the Research Training Group “Slavery, Serfdom and Forced Labor,” at the University of Trier, Germany in cooperation with Tobias Reichardt

### **ORGANISATION OF PANELS AT INTERNATIONAL CONFERENCES**

25/07/2022 Geospatial analysis of interlinked regional economic histories: structural and demographic change, agricultural production, and transport in Southeast Europe and Anatolia, 1840s-1940s, *XIX World Economic History Congress*, Paris

25/03/2021 Geospatial Economic History of Southeast European Regions, 1840-1940: A Cross Examination of Population and Economic Geography, *European Social Science History Conference*, Leiden (on-line)

19/11/2017 Historical GIS Applications to Analyze Economic Geography and Transport Infrastructure in the Ottoman Empire, *51<sup>st</sup> Middle Eastern Studies Association Annual Meeting*, Washington DC

25/07/2017 Geographical Information Systems (GIS). A Tool for Geo-Spatial Analysis in Ottoman Studies, *14<sup>th</sup> International Congress of Ottoman Social and Economic History (ICOSEH)*, Sofia

02/09/2016 By-Employment in Historical Economics: A Neglected Topic in Economic History, *5<sup>th</sup> Asian Historical Economics Conference*, Seoul

31/03/2016 Dynamics of Occupational and Demographic Change in Eurasia 1700-2000: Diverging Paths or Convergence in Occupational Structures and Population Densities? *European Social Science History Conference*, Valencia, co-organised with Osamu Saito

23/04/2014 A Comparative Historical Analysis of Occupational Change Across Eurasia, 1840–1940, *European Social Science History Conference*, Vienna

15/04/2012 Factory Regulations de jura and de facto: Labour Laws and Factory Inspections in the long nineteenth century, *European Social Science History Conference*, Ghent

### **KEYNOTE SPEECH**

28/11/2018 *Keynote* ‘Reading Maps and Mapping Texts: Geo-spatial Histories of Ottoman Mobility and Urbanization’ *Celebrating 60 Years of the Netherlands Institute in Turkey*, Leiden, National Museum of Antiquities

## SELECTED INVITED TALKS

03/11/22 ‘Behind the curtains of UrbanOccupationsOETR, a multi-disciplinary geospatial humanities project: from team building to dataset architecture and research output,’ Geohumanities Seminar, organized by Adéla Sobotkova co-director of the Center for Digital History Aarhus, Aarhus University

26/08/22 with Grigor Boykov and Akin Sefer ‘The making of a mid-nineteenth century Ottoman gazetteer. A collaborative effort of two research projects: UrbanOccupationsOETR and POPGEO\_BG,’ 21<sup>st</sup> W’OTSAp in Ottoman and Turkish Studies? Meeting of the Ottoman and Turkish Studies Association (<https://youtu.be/kb7NWZeSYv8>)

23/06/22 ‘19. yüzyıl Osmanlı tarımının bölgesel dinamiklerini temettuat kayıtlarından edinilen bir geomekansal bir örneklem ile analizi [Analyzing regional dynamics of nineteenth-century Ottoman agriculture via a gesample obtained from temettuat registers],’ Anadolu Çevre Tarihi Söyleşileri [Anatolian Environmental History Talks], A series organized by the TÜBİTAK 121K385 research project hosted at Dokuz Eylül and İzmir Katip Çelebi Universities

05/05/2022 ‘Assessing limitations to population growth for rural settlements around Gordion using mid-nineteenth century Ottoman tax and population registers,’ International Symposium on the Economy of Galatia (central Anatolia) from the Hellenistic Period to the Ottoman Times, Aarhus Institute of Advanced Studies, Aarhus University

20/03/2022 ‘Arşiv Belgeleri için Bilgisayar Görüşü ve Makine Öğrenmesi Uygulamaları,’ Arşivcilikte Yeni Yaklaşımlar Yeni Yöntemler, Çevrimiçi Sertifika Programı, Kadın Eserleri Kütüphanesi ve Bilgi Merkezi Vakfı, Beykoz Üniversitesi, Friedrich Ebert Stiftung

11/03/2022 ‘Regional Estimates for Agricultural Produce and Total Area of Cultivation via Geo-Sampling Ottoman Mid-Nineteenth Century Tax Records,’ Micro-Regions as Spaces of Socio-Ecological Interaction, First Transformation of the Pergamon Micro-Region Milestone Workshop, German Archaeological Institute Istanbul, Free University of Berlin, Technical University of Berlin, Manisa Celal Bayar University, Kiel University

01/02/2022 ‘UrbanOccupationsOETR: A geospatial humanities project aiming to map and examine long-term changes in economic and population geography in Southeast Europe and Turkey,’ ANAMED (Koç University, Research Center for Anatolian Civilizations) Library Talks

17/06/2021 ‘Multi-layered, multi-modal historical transport modelling for Southeast Europe,’ Istanbul Technical University, Graduate School, Department of Informatics Architectural Design Computing Graduate Program Seminar

24/02/2021 ‘Building commensurable datasets to examine crop yields for the regions of Turkey, 1844-1938,’ Economic History of Developing Regions Virtual Seminar

19/11/2020 co-prepared and co-presented with Yekta Said Can ‘UrbanOccupationsOETR. Bringing Ottoman/Turkish history into digital humanities,’ University of Vienna, Digital Humanities and Ottoman Studies, Online Lecture Series (<https://lecture2go.uni-hamburg.de/l2go/-/get/v/60347>)

04/11/2019 ‘Mapping and Simulating Transport Networks and Traffic in Southeast Europe under Ottoman Rule,’ Sabancı University Faculty of Arts and Social Sciences History Seminar, Istanbul

29/05/2019 ‘Osmanlı İmparatorluğu’nda Ulaşım ve Yerleşim Dinamiklerini Sayısal Beşerî Bilimler Yöntemleri ile Yeniden Çalışmak [Revisiting Transport and Settlement Dynamics of the Ottoman

Empire via Methods of Digital Humanities],’ Koç University Vehbi Koç Ankara Studies Research Center, Ankara ([https://www.youtube.com/watch?v=W3BKe\\_p-3fE](https://www.youtube.com/watch?v=W3BKe_p-3fE))

23/11/2018 ‘Geo-Spatial Histories of the Ottoman Past,’ Koç Sohbetleri: An Interdisciplinary Colloquium, Koç University, Istanbul

23/05/2018 ‘New Approaches in Ottoman Studies: Understanding Historical Transport Infrastructure by Using GIS Applications,’ Orient-Institut Istanbul

20/06/2018 ‘Devising a Geo-Spatial Model to Analyse Regional Economic Development and Population Dynamics in South East Europe, 1840-1940,’ Department of Social and Economic History, University of Vienna

19/04/2018 ‘Challenges and Promises of Digital Humanities in Conducting Research in Turkey’ Ankos LINK (Anatolian University Libraries Consortium Annual Meeting), Antalya

10/03/2018 ‘Sanayileşme ve Şehir Gelişimi (1850-2000): Tarihsel Kaynaklar ve Yeni Yöntemler [Industrialisation and Urban Growth (1850-2000): Historical Sources and New Methods],’ Bilim ve Sanat Vakfı [Foundation for Sciences and Arts], Istanbul

15/05/2017 ‘Methodologies for Automatised Processing of late Ottoman Census Files,’ eScience Center, University of Tübingen

16/05/2017 ‘Demography and Social Change the Ottoman Empire, 18<sup>th</sup>-20<sup>th</sup> Centuries,’ Department of Oriental and Islamic Studies, University of Tübingen

29/12/2015 ‘Counting Occupations, Measuring and Mapping Economic Growth from mid-nineteenth century Ottoman Empire to today’s Turkey,’ Koç University, Istanbul

05/05/2014 ‘Occupational Structures of Ottoman Cities in mid-nineteenth Century: Regional Differentiation or Cohesion?’ Quantitative History Seminar, Faculty of History, University of Cambridge

01/04/2014 ‘An Ottoman Armenian Banker between Empires: A Lost Fortune in Istanbul and Failed Attempts to Regain it in London, in the mid-nineteenth Century,’ History Staff-Postgraduate Seminar Series, Northumbria University

### **Ongoing PhD & MA Student Supervision**

Erünel, Efe, PhD in History, Koç University

Bulut, Erkin, PhD in History, Koç University

(co-supervision) Gerrits, Piet, PhD in Geospatial Data Science, University of Glasgow

(second supervision) Karg, Birgit, PhD in Economic History, Johannes Kepler University, Linz

Furkan Elmas, MA in Comparative Studies in History and Society, Koç University

### **MA in History Supervision at Istanbul Bilgi University (2011-2016)**

Ohanian, Daniel. ‘The c. 1907 Ottoman Census and the Demography of Armenians in Southern Istanbul,’ 2016

Shannon Chastain, Joshua John. ‘For Queen and Sultan: Anglo-Ottoman Advisors, Soldiers, Mercenaries and Imperial Agents in War and State (1853-1878),’ 2016

Poyraz, Buğra. ‘The End of the Religious Protectorate of France for Ottoman Catholics and the Start of the Diplomatic Relations with the Holy See,’ 2016

Karaca, Uygur. ‘Comparing Urban Occupational Structures from the Ottoman Empire to the Turkish Republic with Imperial Russia to the USSR,’ 2015.



- Kekilli, Emrah. 'Formation of the Modern Arab Identity Muhammed Kurd Ali: A Reformist Thinker,' 2015.
- Furtuna, Serdar. 'The Barber's Mirror: An Observation on Ethno - Religious Division of Labour through Barbers of the Late Eighteenth to Mid - Nineteenth - Century Ottoman Empire in the Capital and Provincial Centres,' 2015.
- Yücel, Fatih. 'Socio-Economic Life in Three Ottoman Cities (Bursa, Kütahya and Vranje) in the Mid - 19th Century through Temettu'at & Nüfus Registers,' 2015.
- Ardalı, Fehmi. 'Colmar Freiherr von der Goltz and the German Influence on the Ottoman Army,' 2013.
- Esener, Bihter. 'The Making of Turkish Nation: Political Use of Archaeology for the Nation-State Building Project during the Early Republican Era in Turkey,' 2012.
- Umut, Hasan. 'Ismail Gelenbevi at the Engineering School: The Ottoman Experience of European Science through Logarithms,' 2011.

## **COURSES TAUGHT**

### **Koç University, Graduate**

- CSHS 524 Etatism Policies in Comparative Perspectives  
 CSHS 510 Thesis Seminar

### **Koç University, Undergraduate**

- HIST 414 Quantitative History  
 HIST 402 Contemporary World History Since 1939  
 HUMS 131 History, Power, People

### **Summer Schools & Block Seminars**

August 2018, 'Digital Explorations into the Entangled Eastern Mediterranean History' (co-taught with Piet Gerrits) at Koç University & American University of Cairo, Mohammed Ali Research Centre (MOHA) Kavala Summer School: Spatial History, Museums and Heritage Management in the Eastern Mediterranean

30/05/2012 – 14/06/2012 Block Seminar 'Middle Eastern Labour History,' Erasmus Mundus Master in Global Studies – A European Perspective, Global and European Studies Institute, University of Leipzig

### **Istanbul Bilgi University (2008-2014), Graduate**

- HIST 561 Topics in Economic, Social, Cultural and Intellectual History  
 HIST 542 Seminar in History  
 HIST 532 The Practise of Writing History  
 HIST 502 Sources of Turkish Cultural and Intellectual History II  
 HIST 501 Sources of Turkish Cultural and Intellectual History I

### **Istanbul Bilgi University (2006-2014), Undergraduate**

- HIST 462 Readings in Ottoman Paleography II  
 HIST 461 Readings in Ottoman Paleography I  
 HIST 442 Senior Project II  
 HIST 441 Senior Project I  
 HIST 432 Ottoman Institutions II  
 HIST 431 Ottoman Institutions I  
 HIST 422 Special Topics in History  
 HIST 372 Contemporary Turkish History II  
 HIST 331 Selected Readings in Ottoman Turkish I  
 HIST 322 Ottoman Social History  
 HIST 321 European Social History

HIST 312 Methodology and Philosophy of History II  
HIST 311 Methodology and Philosophy of History I  
HIST 298 English for Historians II  
HIST 297 English for Historians I  
HIST 272 The Making of the Modern World II: A Global Narrative, 16th-20th Centuries  
HIST 271 The Making of the Modern World I: A Global Narrative, 16th-20th Centuries  
HIST 212 Ottoman Economic History  
HIST 202 Late Ottoman History  
HIST 162 Global History II: Cultural Encounters from Antiquity to the 20th Century  
HIST 161 Global History I: Cultural Encounters from Antiquity to the 20th Century  
HIST 105 The Mediterranean World from Antiquity to the Middle Ages  
HIST 101 Introduction to Historiography I

### **COMMUNITY SERVICE**

22/05/2019 A Büyükada walk through historical maps, a HAT public outreach activity,  
<https://hat.ku.edu.tr/tarihi-haritalarin-icinde-buyukada-yuruyusu/>

HAT public outreach activity, HAT, YouTube channel: HAT Sohbetleri: Gündelik Hayatta Bilimin Yeri [HAT Conversations: Role of Science in Daily Life]

([https://www.youtube.com/playlist?list=PL\\_d-mvk-6FHRqghxuuWoc\\_0VvVJcNFjOI](https://www.youtube.com/playlist?list=PL_d-mvk-6FHRqghxuuWoc_0VvVJcNFjOI))

Video: Industrialisation and Urban Growth from the mid-nineteenth century Ottoman Empire to Contemporary Turkey in a Comparative Perspective, 1850-2000,

([https://www.youtube.com/watch?v=AS3Q5StwY88&list=PL\\_d-mvk-6FHRqghxuuWoc\\_0VvVJcNFjOI&index=1](https://www.youtube.com/watch?v=AS3Q5StwY88&list=PL_d-mvk-6FHRqghxuuWoc_0VvVJcNFjOI&index=1))