

DR DRIES DAEMS

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Date of birth: 20.07.1990

Nationality: Belgian

Website: <https://www.driesdaems.com/>

RESEARCH INTERESTS

- Social complexity
- Urbanism
- Agent-based modelling
- Complex systems thinking
- Pottery and artefact analysis
- Iron Age to Hellenistic Anatolia
- Social-ecological systems
- Network analysis

EMPLOYMENT

- 01/2021 – Current** Assistant Professor in Settlement Archaeology and Digital Archaeology at Middle East Technical University (Ankara, Turkey)
- 10/2021 – 09/2022** Visiting Assistant Professor at KU Leuven
- 01/2021 – 06/2021** Substitute Lecturer at KU Leuven (0.10 FTE)
- 10/2019 – 12/2020** Postdoctoral researcher (0.5 FTE) with Sagalassos Project on C1 Project “*The role of change in long-term regional development. Approaching the dynamic metabolism of social-ecological systems in the Sagalassos/Ağlasun region.*”
- Coordinator of Microproject Innovative Digital Learning (0.25 FTE): “*Modelling and Simulation in Archaeology*” at KU Leuven
- 10/2019 – 09/2020** Substitute Lecturer at KU Leuven (0.10 FTE)
- 11/2018 – 05/2019** Postdoctoral researcher at Suna & İnan Kıraç Research Centre for Mediterranean Civilizations (Koç University, Antalya) on “*Polis formation and synoikismos in southwest Anatolia*”.
- 10/2018 – 09/2019** Substitute Lecturer at KU Leuven (0.10 FTE)

EDUCATION

- 2014-2018** Ph.D. in Archaeology (KU Leuven) Obtained: 15 May 2018
Dissertation title: *Dynamics of social complexity: Community formation beyond the origin of polis during the Iron Age, Achaemenid, and Hellenistic periods. The case of Düzen Tepe, Sagalassos and southwest Anatolia.*
Supervisor: Prof. Dr. Jeroen Poblome (KU Leuven)
Jury members:
Em. Prof. Dr. Sander van der Leeuw (Arizona State University)
Em. Prof. Dr. John Bintliff (University of Edinburgh)
Prof. Dr. Christopher Ratté (University of Michigan)
Prof. Dr. Philip Van Peer (KU Leuven)
Prof. Dr. Katelijn Vandorpe (KU Leuven)

- 2011-2012 Master of Arts in Archaeology (KU Leuven)
Thesis title: *Elite Identity in Late Roman Britain. Material Manifestation and Societal Capacity* (Supervisor: Prof. dr. Jeroen Poblome)
- 2008-2011 Bachelor of Arts in Archaeology (KU Leuven)
Thesis title: *League Coins in Ancient Greece. A Critical Reflection on the Herakles Drakonopnigon series* (Supervisor: Prof. dr. Johan Van Heesch)

TEACHING EXPERIENCE

- 2021 – 2022 Introduction to Agent-Based Modelling (MA/PHD) at METU
Digital Archaeology (MA/PHD) at METU
GIS Applications in Archaeology (MA/PHD) at METU
Spatial Analysis in Archaeology (MA/PHD) at METU
Geoarchaeology (MA/PHD) at METU
Seminar in Settlement Archaeology (MA/PHD) at METU
Anatolian Archaeology (MA/PHD) at METU
Ancient Urban Traditions (MA/PHD) at METU
- 2020-2021 Archaeological Theory, Methods and Practice III: Spatial Analysis (3BA) at KU Leuven
Themes in Classical Archaeology (2/3 BA) at KU Leuven
- 2019-2020 Seminar in Classical Archaeology (MA) at KU Leuven
Workshop at Computer Applications & Quantitative Methods in Archaeology – Netherlands/Flanders Chapter Meeting
“Agent-based modelling: Are computer simulations useful for archaeologists?”
- 2018-2019 Themes in Classical Archaeology (2/3 BA) at KU Leuven
Workshop at Middle Eastern Technical University (Ankara)
“Digital archaeology and model thinking: Hands-on examples, best practices and tutorials in data science, agent-based modelling, and network analysis.”
- 2017-2018 Archaeological Theory, Methods and Practice I (1BA) at KU Leuven (Assistant Lecturer)
Archaeological Theory, Methods and Practice II (2BA) at KU Leuven (Assistant Lecturer)
Field School (1BA) at KU Leuven (Assistant Lecturer)
- 2015-2016 Archaeological Theory, Methods and Practice I (1BA) at KU Leuven (Assistant Lecturer)
Field School (1BA) at KU Leuven (Assistant Lecturer)

PUBLICATION LIST

Published

Daems, D. and P. Talloen (2022) Moving in together? Synoikismos and polis formation in Sagalassos and southwest Anatolia. *Basor*.

Daems, D. (2021) *Social Complexity and Complex Systems in Archaeology*. Routledge.

Daems, D. (2021) Social Complexity and Complexity Economics. Studying Socio-Economic Systems at Düzen Tepe and Sagalassos (SW Turkey). In: K. Verboven (Ed.) *Complexity Economics: Building a New Approach to Ancient Economic History*. Palgrave Studies in Ancient Economies, pp. 163-201.

- Daems, D., Vandam, R., Cleymans, S., Broothaerts, N., Boogers, B., Matsuo, H., Mirhanoğlu, A.** (2021) The social metabolism of past societies. A new approach to environmental changes and societal responses in the territory of Sagalassos (SW Turkey). In: Erdkamp, P., Verboven, K. and Manning, J. (eds.) *Climate Change and Ancient Societies in Europe and the Near East: Diversity in Collapse and Resilience*. Palgrave Studies in Ancient Economies. Palgrave.
- Daems, D. and S. Boogers** (2021) Simulating Resource Exploitation Strategies in Iron Age to Hellenistic Communities in Southwest Anatolia. *Metalla Sonderheft 10*: pp. 93-97.
- Shaw, J., Coco, E., Wootton, K., **Daems, D.**, Gillreath-Brown, A., Swain, A. and Dunne, H. (2021) Disentangling ecological and taphonomic signals in ancient food webs. *Paleobiology* 47(3): pp. 385-401.
- Daems, D.** (2021) Archaeology at Sagalassos: How do we document the beginning? In: Poblome, J. (ed.) *Scripta manent. Documenting the Archaeology of Sagalassos*. Istanbul: ITU.
- Daems, D.** (2021) Review of "M. Saqalli and M. Vander Linden (eds.) (2019) Integrating Qualitative and Social Science Factors in Archaeological Modelling. *The Journal of Artificial Societies and Social Simulations* 24(1).
- Daems, D.** (2020) Reassessing the Origin of Polis in Lycia and Southwest Anatolia. *Adalya* 23, pp. 111-132.
- Daems, D.** (2020) A Review and Roadmap of Online Learning Platforms and Tutorials in Digital Archaeology. *Advances in Archaeological Practice* 8(1): pp. 87-92.
- Daems, D.** (2020) On Complex Archaeologies: Conceptualising Social Complexity and its Potential for Archaeology, *Adaptive Behavior* 28(5): pp. 323-328.
- Daems, D.** (2020) Review of "James, S. (2018) Hellenistic Pottery: The Fine Wares", *Journal of Greek Archaeology* 5: pp. 607-610.
- Daems, D.** (2019) Building communities. Presenting a model of community formation and organizational complexity in southwestern Anatolia. *Journal of Anthropological Archaeology* 56, 101110.
- Brughmans, T, Hanson, JW, Mandich, MJ, Romanowska, I, Rubio-Campillo, X, Carrignon, S, Collins-Elliott, S, Crawford, K, **Daems, D.**, Fulminante, F, de Haas, T, Kelly, P, del Carmen Moreno Escobar, M, Paliou, E, Prignano, L and Ritondale, M. (2019) Formal Modelling Approaches to Complexity Science in Roman Studies: A Manifesto. *Theoretical Roman Archaeology Journal*, 2(1): 4, pp. 1-19.
- Daems D. and P. Bes** (2019) Material Culture or Culture of the Material? Review and vision on Material Studies in the Sagalassos Project. *Tijdschrift Mediterrane Archeologie* 60, pp. 124-129.
- Poblome, J. and D. **Daems** (2019) Once upon a Sagalassos: a story about origins and emergence'. In: Poblome, Torun, Talloen, and Waelkens (eds.) *Meanwhile in the Mountains: Sagalassos*, 59-69. Istanbul: Yapı Kredi Yayınları.
- Kiekens, A., Rongé, J., Van Eynde, S., Cleymans, S., **Daems, D.**, De Ridder, B., Despeghel, J., Moonen, P., Ovaere, M. and Smeets, N. (2019) How to move towards a common understanding of progress? A transdisciplinary exercise involving 10 young researchers. *Transdisciplinary Insights*. Leuven.
- Daems, D, van Der Enden, M., Talloen, P., Poblome, J.** (2019) The Hellenistic Pottery Repertoire made at Sagalassos, SW Anatolia. In: A. Peignard-Giros (ed.) *Daily Life in a Cosmopolitan World: Pottery and Culture during the Hellenistic Period. Proceedings of the 2nd Conference of IARPotHP Lyon, November 2015, 5th - 8th*, pp. 81-96.

Poblome, J., Vandam, R., **Daems**, D., Willett, P., Zenger, Y., (2019) The 2017 Sagalassos survey research, in: T.C. Kültür ve Turizm Bakanlığı. T.C. Kültür ve Turizm Bakanlığı / Ankara, pp. 355–376.

Daems, D. (2018) A matter of formalities. A basic measure of social complexity in the past. *Instrumenta*. Proceedings of "Quantification in Classical Archaeology: objects, methodologies and aims", Remesal *et al.* (eds.). Barcelona.

Daems, D., Cleymans, S., Vandam, R., & Broothaerts, N. (2018) Carrying capacity: A superseded concept or a window of opportunities?. In: *Conference Proceedings of the 24th European Association of Archaeologists Annual Meeting*. Barcelona.

Daems D., Poblome J. (2017) The Pottery of Late Achaemenid Sagalassos: an overview. *HEROM. Journal on Hellenistic and Roman Material Culture*, 6 (1), 49-62.

Daems D., Braekmans D., Poblome J. (2017) Late Achaemenid and Early Hellenistic Pisidian Material Culture from Düzen Tepe (SW Anatolia). *HEROM. Journal on Hellenistic and Roman Material Culture*, 6 (1), 11-47.

Monsieur P., **Daems** D., Poblome J. (2017) Hellenistic and Italic amphorae from Sagalassos. *HEROM. Journal on Hellenistic and Roman Material Culture*, 6 (1), 97-118.

Cleymans S., **Daems** D., De Cupere B., Marinova E., Poblome J. (2017) A Taste of Time. Foodways and Cultural Practices in Late Achaemenid-Early Hellenistic Düzen Tepe (SW Anatolia). *HEROM. Journal on Hellenistic and Roman Material Culture*, 6 (1), 63-95.

Poblome, J., Vandam, R., Broisch, M., Talloen, P., & **Daems**, D. (2017) The 2016 Sagalassos Survey Activities. *Araştırma Sonuçları Toplantısı*, 35(2), 59–83.

Daems D., Poblome J. (2016) Adaptive Cycles in Communities and Landscapes: The Case of Sagalassos and Düzen Tepe During the Classical/Hellenistic Period. *Archaeological Review from Cambridge*, 31 (2), 91-107.

Daems D. (2016) Social Complexity at Sagalassos and Düzen Tepe in Classical and Hellenistic times. *Tijdschrift voor Mediterrane Archeologie*, 55, 61-67.

Talloen P., **Daems** D., Beaujean B., Poblome J. (2015) The 2014 control excavations on the Upper Agora of Sagalassos. *ANMED*, 13, 99-107.

In press, accepted, and under review

Daems, D. and J. Poblome (In press) The Hellenistic pottery of Sagalassos: A Typological Update. *Manufacturers and Markets: The Contributions of Hellenistic Pottery to Economies Large and Small*, Athens, 11 Nov 2019 - 14 Nov 2019. Conference Proceedings of the International Association for Research on Pottery of the Hellenistic Period (IARPOTHP). Phoibos Verlag.

Daems, D., Cleymans, S., & Loopmans, M. (In Press) Organisation of labour, subsistence and material production in a model of urban pull dynamics. The case of Sagalassos and environs from Achaemenid to Middle Byzantine times. In Conference Proceedings of the 19th International Congress of Classical Archaeology Cologne/Bonn, 22 – 26 May 2018. Bonn: Propylaeum: Heidelberg University Publishing.

Daems, D. (Accepted) Between cities and kings. Polis formation in southwest Anatolia during the Hellenistic period. In: F. Diosono and D. Maschnik (eds.) *Beyond Hybridity and Code-Switching: Material Approaches to Cultural Concurrences in the Late Hellenistic Mediterranean*.

Daems, D. (Accepted) Adaptive cycles in archaeology. Indicators of change and stability in socio-economic systems. In: Poblome, J. and Vandam, R. (eds.) *Once upon a river. Long-term change in the social metabolism of the Ağlasun Valley*. Leuven University Press.

Poblome, J., Loopmans, M., Muys, B., Van den Broeck, P., **Daems**, D. (Accepted) Long-term change in the social metabolism of the Ağlasun Valley. Introducing the conceptual framework. In: Poblome, J. and Vandam, R. (eds.) *Once upon a river. Long-term change in the social metabolism of the Ağlasun Valley*. Leuven University Press.

Daems, D. (Accepted) The Hellenistic pottery at Çatal Höyük: A preliminary study. In: Marciniak, A. (ed.) *The Post-Neolithic Materials at Çatal Höyük*.

Daems, D. (Under review) A new framework for understanding causal mechanisms in long-term trajectories of social complexity. *Applied Network Science*.

Daems, D. (Under review) POLISABM: Modelling Polis Formation, Urban Systems And Social Complexity In The Eastern Mediterranean (1000-200 BCE). *Proceedings of CAA 2021: Digital Crossroads*.

FELLOWSHIPS, GRANTS AND BURSARIES

- 2021-2022** AKMED Project Support 2021
Funded by: Suna & İnan Kiraç Research Centre for Mediterranean Civilizations (Koç University, Antalya)
Project title: *Koinè formation in Iron Age to Hellenistic Pisidia*
Amount: ₺12,000
- 2021** Wenner-Gren Foundation Grant for Participation at EAA 2021 – Widening Horizons
Funded by European Association of Archaeologists
Amount: €45
- 2020-2024** Scientific Research Network Grant (application coordinator)
Funded by Research Foundation Flanders
Project title: *Network for Agent-based modelling of Social-ecological systems in Archaeology (NASSA)*
Amount: €62,500
- 2020** Graduate Collaborative Research Awards
Funded by: Universitas 21
Project title: *Let's Work Together: Modelling the emergence of social cooperation and complexity formation*.
Amount: \$3,550
- Bridge Grant
Funded by: yrCSS (Young Researchers of the Complex Systems Society)
Project title: *Let's Work Together: Modelling the emergence of social cooperation and complexity formation*.
Amount: €1,000
- Microproject Innovative Digital Learning
Funded by: KU Leuven
Project title: Modelling and Simulation in Archaeology
Amount: €10,000
- 2019** IdeaLabs Grant for Interdisciplinary Research Groups (Extension)
Funded by Academic Foundation Leuven
Project title: *Sustainability and Resilience in Past & Present Populations*
Amount: €1,250
- Travel grant for participation in "Winter Workshop on Complex Systems 2020" at Gruyère (Switzerland)
Amount: ₣200
- Bursary for attendance Complex Systems Summer School, Santa Fe Institute

Funded by: Academic Foundation Leuven
Amount: €1,200

Bursary for conference participation at CAA 2019 (Krakow)
Funded by: CAA International
Amount: €480

2018-2019 Postdoc Fellowship for Visiting Scholars
Funded by Tübitak: Scientific and Technological Research Council of Turkey
Amount: ₺30,000

2017-2019 IdeaLabs Grant for Interdisciplinary Research Groups
Funded by Academic Foundation Leuven
Project title: *Sustainability and Resilience in Past & Present Populations*
Amount: €2,500

2014-2018 Ph.D. Fellowship
Funded by Research Foundation Flanders
Amount: Fully funded Ph.D. fellowship

ACADEMIC PRIZES

2022 Book Award ODTÜ Geliştirme Vakfı
Award: ₺7,500

COMPETENCIES AND SKILLS

Technical skills	Languages
<ul style="list-style-type: none">• Agent-based modelling: Netlogo^{***}, R[*]• GIS: QGIS^{***}, ArcGis[*]• Data analysis: R^{***}, Excel^{**}, Python[*]• Network analysis: Visone^{**}, Gephi^{**}• Database management: Access^{***}, SQL[*], Neo4j[*]• Text processing: Word^{***}, Markdown^{***}, LaTeX^{**}	<ul style="list-style-type: none">• Dutch: Mother tongue• English: Excellent• French: Good• German: Basic• Turkish: Conversational• Greek and Latin: Reading

FIELDWORK

2022 Pottery studies with the Tell Ya'amoun Regional Survey Project (University of Helsinki)
Specialisation: Iron Age pottery at Tell Ya'amoun and surroundings (Jordan)

2021-Current Pottery studies with the Komana Archaeological Research Project (METU)
Specialisation: Iron Age to Hellenistic pottery of Komana (Turkey)

2015-Current Pottery studies with the Sagalassos Project (KU Leuven)
Specialisation: Iron Age to Hellenistic pottery of Sagalassos and study area (Turkey)

2014-2015 Excavation assistant with the Sagalassos Project (KU Leuven)

SERVICES TO THE FIELD

Management and administrative positions

2021-Current Coordinator M.Sc. in Digital Archaeology program (Middle East Technical University)
Department council of Settlement Archaeology (Middle East Technical University)

2020-Current Executive council member and main coordinator of NASSA: Network for Agent-based modelling of Social-ecological Systems in Archaeology.

2014-Current Depot manager at Sagalassos Project excavations (Turkey)

- 2014-2021** Administration of the Sagalassos Project
Tasks: General administration and organization of archaeological campaigns
Archive manager of digital and physical archives of the Sagalassos Project (KU Leuven)
- 2018-2020** Program Committee, Department of Archaeology (KU Leuven)
- 2018-2019** Sub-faculty council and AP fraction council at Faculty of Arts (KU Leuven)
- 2017-2018** Head representative of Assisting Personnel of Research Unit Archaeology, Art history and Musicology at sub-faculty council and AP fraction council at Faculty of Arts (KU Leuven)

Professional affiliations

- Network for Agent-based modelling of Social-ecological systems in Archaeology (NASSA)
- Complex Systems Society
- Young Researchers of the Complex Systems Society
- CAA International (Computer Applications & Quantitative Methods in Archaeology)
- CAA Special Interest Group on Scientific Scripting Languages in Archaeology
- European Association of Archaeologists (EAA)
- The International Association for Classical Archaeology (AIAC)
- International Association for Research on Pottery of the Hellenistic Period (IARPotHP)
- Pages (Past Global Changes) Early Career Network

Reviewer activities

Reviewer for: Journal of Open Archaeology Data, PLOS ONE, Journal of Computer Applications in Archaeology, HEROM: Journal of Hellenistic and Roman material culture, Journal of Archaeological Science: Reports, Journal of Artificial Societies and Social Simulation, the Holocene, International Journal of Modelling and Simulation.

CONFERENCE ORGANISATION

- 2022** Session organiser at EAA 2022 (to be held on 31/08-4/09): "*Agent-based modelling of socio-ecological systems in Archaeology. Towards a new research community*".
Session organiser at EAA 2022 (to be held on 31/08-4/09): "*Roundtable: Towards an Open Platform for Computer Simulations of Past Socio-ecological Systems*".
- 2021** Session organiser at EAA 2021: "*A Network for Agent-Based Modelling of Socio-Ecological Systems in Archaeology (NASSA)*".
Main organiser of workshop "*From past to future: Deep-time patterns of sustainability and resilience in socio-ecological systems*" at KU Leuven, 11-12 May 2021.
- 2019** Organising committee of "*Computer applications & Quantitative Methods in Archaeology Conference (Netherlands-Flanders Chapter)*" at Leuven, 23-25 October 2019.
- 2016** Main organiser of *Synoikismos* seminar "*Complexity and social-ecological systems*" at KU Leuven, 18 February 2016.
- 2014-2020** Organising committee of the monthly "*Leuven Archaeological Research Seminars*" at KU Leuven.

INVITED TALKS

- 2022** Archaeology in Action Lectures: East Aegean/Anatolia (to be held on June 6th). The International Association for Archaeological Research in Western & Central Asia
Invited talk: *The Light and Shadow of Hellenism: The Hellenistic Period in Anatolia*.

Public Lectures at Deutsches Archäologisches Institut - Istanbul

Invited talk: *Urban complexity and human-environment interactions in Bronze Age to Hellenistic Anatolia.*

TransPergMikro Workshop: Micro-Regions as Spaces of Socio-ecological Interaction

Invited talk: *Social-Ecological Systems in Archaeology.*

ReForm Lectures: Systemic Dynamics – RessourcenCampus Bochum

Invited talk: *Long-term trajectories of social complexity: Feedback loops, sunk-costs and material prerequisites in social systems.*

Dynamical Systems and Networks Seminars – Université de Namur

Invited talk: *Quantitative shape-based approaches to functional typologies. The case of Sagalassos and environs in southwest Anatolia (Turkey).*

2021

Archaeometry Seminars – Middle East Technical University

Invited talk: *Pottery studies and digital archaeology: Data challenges in the case of Sagalassos.*

Workshop "Network Perspectives in the Archaeology of the Ancient Near East and Eastern Mediterranean" – University of Helsinki

Invited talk: *Networks of Pots in Mediterranean Archaeology.*

Annual meeting of the Center of Excellence in Ancient Near Eastern Empires: Networks – tools, data and research (Helsinki)

Keynote speech: *Connectivity and interaction: Networks as drivers of social complexity.*

2020

Workshop "Procurement of raw materials. Pathways to the Late Neolithic of Central and Western Anatolia". Adam Mickiewicz University, Poznan.

Invited talk: *Resourceful communities: Strategies of resource exploitation in the area of Sagalassos.*

2019

Guest lecture at Middle Eastern Technical University (Ankara)

Invited talk: *Digital archaeology and model thinking: Social complexity in southwest Anatolia.*

CONFERENCE PARTICIPATION

2022

Society for Near Eastern Landscape Archaeology International Symposium

Paper title: *Modelling subsistence and resource exploitation as proxies for socio-economic complexity in southwest Anatolia*

2021

French Regional Conference on Complex Systems 2021, Lyon [online].

Paper title: *A new framework for understanding causal mechanisms in long-term trajectories of social complexity.*

5th IARPotHP Conference: "From East to West and Back Again: Societies, Economies and Ceramics in the Hellenistic World", Seville [online].

Paper title: *Why do things change anyway? Redefining koine as an emergent social, cultural and economic phenomenon at Sagalassos.*

Computer applications & Quantitative Methods in Archaeology Conference 2021, Limassol [online].

Paper title: *PolisABM: Modelling polis formation, urban systems and social complexity in the eastern Mediterranean from Iron Age to Hellenistic times.*

International Conference on Resources and Transformation in Pre-modern Societies, Bochum [online].

Paper title: *Simulating Resource Exploitation Strategies in Iron Age to Hellenistic Communities in Southwest Anatolia.*

27th Annual Meeting of the European Association of Archaeologists, Kiel [online]
Paper title: Quantitative shape-based approaches to functional typologies in Late Bronze Age and Iron Age pottery from southwest Anatolia

2019

4th IARPotHP Conference: Manufacturers and Markets. The Contributions of Hellenistic Pottery to Economies Large and Small, Athens.

Paper title: *The Hellenistic Pottery from Sagalassos: A General Framework of Typo-Chronology, Production, Consumption and Distribution.*

Computer applications & Quantitative Methods in Archaeology Conference (Netherlands/Flanders Local Chapter), Leuven.

Paper title: *Modelling the origin of polis in Anatolia. From conceptual to computational approaches.*

Theoretical Archaeology Group Conference, London.

Paper title: *Conceptual modelling of social complexity trajectories and inequality in urban networks.*

Computer applications & Quantitative Methods in Archaeology Conference, Krakow.

Paper title: *Modelling the origin of polis in Anatolia. From conceptual to computational approaches.*

2018

Conference on Complex Systems, Thessaloniki.

Paper title: *Materialising complexity. A conceptual model of material culture, social complexity and mechanisms of change.*

24th Annual Meeting of the European Association of Archaeologists, Barcelona.

Paper title: *Carrying Capacity. A superseded concept or window of opportunities?*

19th International Congress of Classical Archaeology, Köln/Bonn.

Paper title: *Tracing organisation of labour and material production at Sagalassos.*

Theoretical Roman Archaeology Conference, Edinburgh.

Paper title: *Attracting cities: The role of urban attraction poles in a model of community formation and social complexity dynamics.*

2017

Conference on Complex Systems, Cancun.

Paper title: *Complexity Matters. Uncovering mechanisms of social complexity in the past.*

Quantification of Material Culture Workshop, Barcelona

Paper title: *Counting sherds is complex business. Quantifying micro dynamics in social complexity through material culture.*

2016

Conference on Complex Systems, Amsterdam.

Paper title: *Dynamics of Social Organisation. Use of social practices and adaptive cycles to study past societies.*

2015

Second Conference of IARPotHP, Lyon.

Paper title: *Classical and Hellenistic Sagalassos. The ceramic evidence.*

International Mediterranean Survey Workshop, Göttingen.

Paper title: *Origin of polis 2.0. A case from SW Anatolia. What can survey data from Sagalassos and environs tell us?*

PUBLIC OUTREACH

2021

Contribution to the yearbook of the Sagalassos Project: Poblome, J., Beaujean, B., Talloen, P., **Daems**, D., Uytterhoeven, I., Doperé, F. and Torun E. "Van plek tot plein, de Boven Agora". Leuven: *Peeters Publishers*.

Perspective piece: **Daems**, D. Rethinking Connectedness from Past to Future. *Maja. Magazine of the Young Academy: Pandemic Edition*, pp. 20-24.

- 2020 Finalist 'Falling Walls Lab Leuven' (Belgium)
Title: Breaking the walls of past, present and future complexity.
- Lecture at Rozenberg (3rd - 4th year secondary school) (Mol, Belgium)
Title: Archaeology and studying life in the ancient world.
- 2019 Contribution to exhibition catalogue: Poblome, J. and D. **Daems**. Once upon a Sagalassos: a story about origins and emergence'. In: Poblome, Torun, Talloen, and Waelkens (eds.) Meanwhile in the Mountains : Sagalassos, 59–69. Istanbul: Yapı Kredi Yayınları.
- Contribution to the yearbook of the Sagalassos Project: Poblome, J., Cleymans, S., Beaujean, B., **Daems**, D., Vandam, R. "Hoe doen we het?". Leuven: *Peeters Publishers*.
- 2018 Lecture at Rozenberg (3rd - 4th year secondary school) (Mol, Belgium)
Title: Life in the ancient world.
- 2017 Contribution to the yearbook of the Sagalassos Project: Poblome, J., Vandam, R., **Daems**, D., Kaptijn, E., Talloen, P., Van Loo, M., Verstraeten, G., De Cupere, B., Marinova, E., Janssen, E., Muys, B., and Kocabiyik, C. "En de boer, hij ploegde voort". Leuven: *Peeters Publishers*.
- 2016 Lecture at Saint-Dymphna College (6th year secondary school) (Geel, Belgium)
Title: Sagalassos. The story of an ancient city.
- Lecture for Association of Historians in Geel (Belgium)
Title: Sagalassos. The story of an ancient city.
- 2015 Lecture at Saint-Dymphna College (6th year secondary school) (Geel, Belgium)
Title: Sagalassos. The story of an ancient city.

COURSES, WORKSHOPS AND SUMMER SCHOOLS

- 2021 CoMSES Net International Winter School on Agent-Based Modeling of Social-Ecological Systems (Arizona State University, Online)
- 2020 Winter Workshop on Complex Systems (Lausanne)
- 2019 Complex Systems Summer School (Santa Fe Institute, Santa Fe)
Modelling and Simulation in Archaeology (SPOC, Leiden University)
Introduction to Complexity (MOOC, Santa Fe Institute)
Fractals and Scaling (MOOC, Santa Fe Institute)
- 2018 Digital Archaeology Summer School (Barcelona)
Introduction to Model Thinking (MOOC, University of Michigan)
Academic Writing (KU Leuven)
- 2017 Introduction to Python for Data Science (DataCamp)
Introduction to Agent-Based Modelling (MOOC, Santa Fe Institute)
Workshop Agent-Based Modelling with NetLogo (CAA Atlanta)
Fundamental statistical methods with R (Leuven Statistics Centre)
LaTeX Introduction (KU Leuven)
- 2016 Introduction to R (Leuven Statistics Research Centre)
Essential Tools for R (Leuven Statistics Research Centre)
- 2015 Fundamental Statistical Methods (Leuven Statistics Research Centre)
Matlab Part 1: Introduction (Leuven Statistics Research Centre)
Matlab Part 2: Programming (Leuven Statistics Research Centre)
- 2014 Programming for Everybody: Python (MOOC, University of Michigan)