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| **TRAC 2018 (Theoretical Roman Archaeology Conference)**  **Edinburgh, 12th -14th April 2018**  **CALL FOR PAPER FORM** | |
| **Title of the Paper** | An agent-based model of trade in the Roman East (25BC-150AD) |
| **Speaker Information** | Simon Carrignon, Barcelona Supercomputing Center & Univ. Pompeu Fabra, [simon.carrignon@bsc.es](mailto:simon.carrignon@bsc.es) (speaker)  Tom Brughmans, University of Oxford  Iza Romanowska, Barcelona Supercomputing Center |
| **Session** | 1E-2E |
| **Abstract** | We present an agent-based model linking economic models and archaeological knowledge to compare different hypothesis regarding the socio-economic processes at the origin of the observed distribution of different types of tableware used in the Roman East from 25 BC to 150 AD. We illustrate that simple social interactions, such has the frequencies of social exchanges between cities can approximate the pattern observed in the dataset and that by using intensives series of simulations we can explore and select among the different hypotheses made on those social interactions to determine which is best suited to explain the data. |