**Social Network Analysis, Community Detection Algorithms, and Neighbourhood Identification in Pompeii**

Notarian, Matthew1

1 Hiram College – Hiram, Ohio, USA

Correspondence: notarianmf@hiram.edu

**Abstract**

The definition and identification of urban neighbourhoods in archaeological contexts remain complex and problematic, both theoretically and empirically. As constructs with both social and spatial characteristics, their detection through material culture alone remains elusive, especially within large settlements that are incompletely excavated or preserved. Thanks to its focus upon relational ties, network analysis offers a profitable path towards untangling the complexities of urban neighbourhoods, especially with respect to their often imprecise, fuzzy boundaries. Various community detection algorithms offer mathematical solutions for partitioning large graphs into communities, but these should not be applied without careful interpretation. Two of the most widely utilized community detection algorithms based on modularity optimization, Louvain and Leiden, contain a customizable resolution parameter that is often overlooked by practitioners. This controls the density of the partitioned communities, and therefore the number identified, but it is difficult to determine the optimal value for any given network. In addition, the results of community detection algorithms vary stochastically. Reliance upon a single iteration may mask potentially significant differences between runs using even a constant resolution parameter. A recently developed algorithm, the Convex Hull of Admissible Modularity Partitions (CHAMP), is designed to overcome these complications and also generates potentially useful multiscalar network community structures. Its applicability to neighbourhood archaeology is demonstrated within three networks of Pompeian housing units based on shared public fountains.

The case study examines Pompeii’s public fountains as hubs of social interaction. Given their daily frequentation by nearby inhabitants, fountains represent plausible proxies for the centres of definable neighbourhoods. It expands upon a spatial network model that connected all 2000+ external doors in the city to the 40 public fountains that were likely functional in 79 CE. Three undirected, one-mode networks were constructed in which units are linked to each other by a common fountain and weighted by the number of fountains they share. The first network connects units by the closest fountain to any external door. Since many properties had side doors within reach of different water sources, these represent potential interconnections between communities. The second and third networks use incrementally larger time to fountain thresholds (30-second and one-minute walks to any fountain, respectively) to map potential choices, also expanding social integration. The results demonstrate that innovative methods for assessing the output of community detection algorithms offer new modes of analysis that are applicable not just to neighbourhood archaeology, but any archaeological network analysis that uses graph partitioning.

***Keywords:*** network analysis, community detection, neighbourhoods, urban archaeology, Roman archaeology, Pompeii

Introduction

Neighbourhood archaeology (e.g. [Pacifo & Truex, 2019a](#Pacifico_and_Truex_2019a); [Thompson et al., 2022](#Thompson_et_al_2022); [Haug et al., 2023](#Haug_et_al_2023)) and network community detection ([Shai et al., 2020](#Shai_et_al_2020)) are two topics that have seen increasing interest in recent years within their respective disciplines. In general, community detection algorithms seek to identify clusters of nodes that are more densely connected to each other than others in the network, a process with many useful applications in archaeology. Studies have used them to explore the political affiliation of Maya polities ([Scholnick et al., 2013](#Scholnick_et_al_2013)), spatial scales of ceramic similarity networks ([Peeples & Bischoff, 2023](#Peeples_and_Bischoff_2023)), Neolithic household community organization ([Mazzucato, 2019](#Mazzucato_2019)), and dendrochronological provenance patterns ([Visser, 2021](#Visser_2021)). Nonetheless, advances in the quality and efficiency of community detection algorithms, and innovative methods for assessing their outputs, offer new modes of analysis that have yet to be put to widespread use in archaeological network research. This paper focuses on the potential of community detection to identify urban neighbourhoods in Pompeii, but the methodologies outlined have implications for numerous applications within archaeological network analysis that use graph partitioning.

Two of the most widely utilized community detection algorithms based on modularity optimization, Louvain and Leiden, contain a customizable resolution parameter that is often overlooked by practitioners. This controls the density of the partitioned communities, and therefore the number identified, but it is difficult to determine the optimal value for any given network. In addition, the results of community detection algorithms vary stochastically. Reliance upon a single iteration may mask potentially significant differences between runs using even a constant resolution parameter. A recently developed algorithm, the Convex Hull of Admissible Modularity Partitions (CHAMP), is designed to overcome these complications and also generates potentially useful multiscalar network community structures ([Weir et al., 2017](#Weir_et_al_2017)). Its applicability to neighbourhood archaeology is demonstrated within three one-mode networks of Pompeian housing units based on shared public fountains.

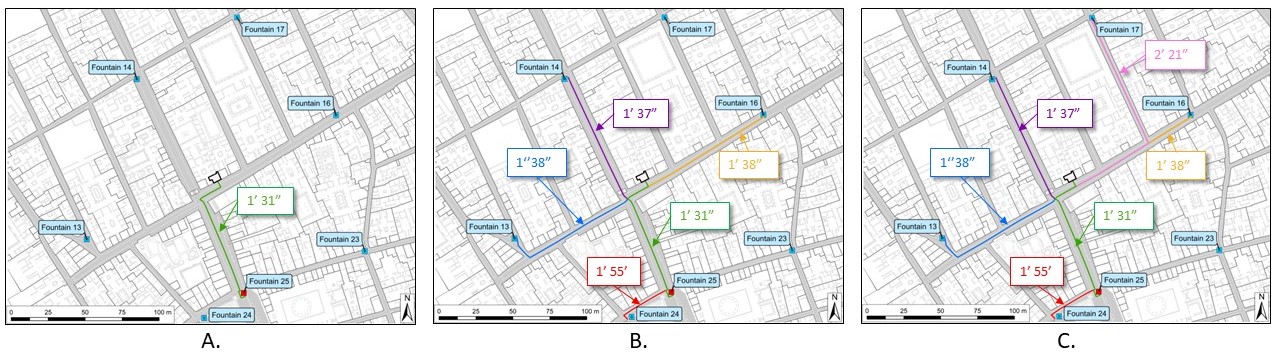
Neighbourhoods in Pompeii based on Shared Public Fountains

The definition and identification of urban neighbourhoods in archaeological contexts remain complex and problematic, both theoretically and empirically ([Smith 2010](#Smith_2010); [Pacifico & Truex, 2019b](#Pacifico_and_Truex_2019)). Are neighbourhoods primarily top-down administrative units, organic bottom-up household agglomerations, or something in between? Is face-to-face interaction an important prerequisite or can larger districts exist at a more dispersed level of contact? Crucially, as constructs with both social and spatial characteristics, their detection through material culture alone remains elusive, especially within large settlements that are incompletely excavated or preserved. Nonetheless, in Pompeii, many studies have noted that public fountains were centres of daily social interaction for nearby inhabitants ([Laurence, 2007](#Laurence_2007); [Notarian, 2023](#Notarian_2023)). Therefore, they can be considered plausible proxies for definable neighbourhoods. These are often defined by simple linear distances from fountains. Yet, thanks to its focus upon relational ties, network analysis offers a more profitable path towards untangling the complexities of urban neighbourhoods, especially with respect to their often imprecise, fuzzy boundaries ([Poorthuis, 2018](#Poorthuis_2018)). It also generates quantitative metrics with which to explore theoretical questions regarding the nature of urban neighbourhoods.

The excellent preservation of Pompeii’s streets and domestic units permits the creation of a detailed social network based on shared fountain use. This study expands upon an earlier spatial network model that connected all 2000+ external doors in the city to the 40 public fountains that were likely functional in 79 CE, when the city was destroyed ([Notarian, 2023](#Notarian_2023)). Least-cost routes to the closest fountain from every door were identified using estimated walking time rather than linear distance. The results of this analysis revealed important points that had previously been overlooked. First, many housing units with multiple exterior doors are closer to different fountains depending upon the door exited. Second, an inhabitant’s choice of fountain often depended upon differences of mere seconds in walking time. In such situations it is difficult to predict which fountain a particular unit may have frequented. Individual agency must have determined the composition of the social communities tied to fountains more than previously assumed. Further, if Pompeians habitually used *multiple* fountains, the neighbourhoods formed by this activity would have been far more dynamic, fuzzy, and overlapping than a static division can represent.

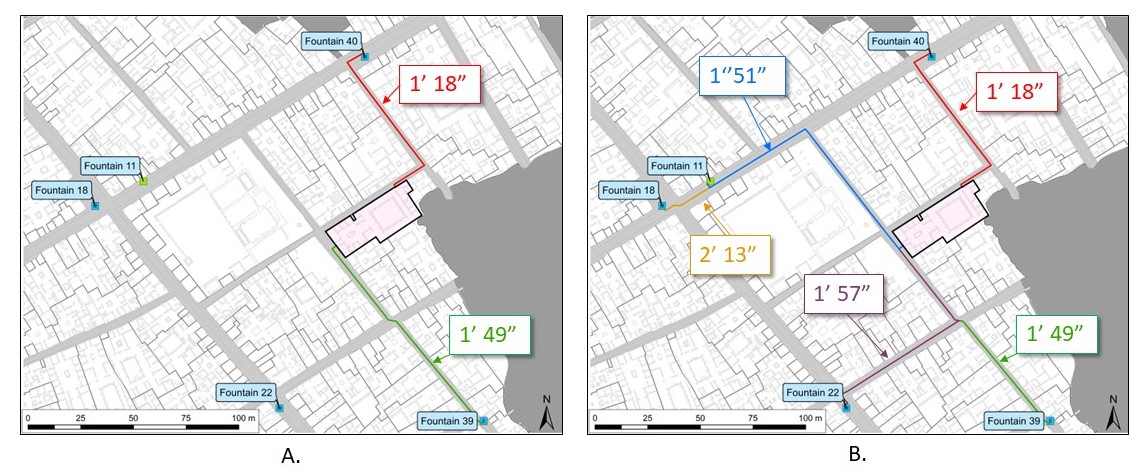
Methods

To further explore these dynamics, three undirected, one-mode networks were constructed in which units are linked to each other by a common fountain and weighted by the number of fountains they share. The networks were built and analysed in Gephi ([Bastian et al., 2009](#Bastian_et_al_2009)) and the R packages qgraph ([Epskamp, 2012](#Epskamp_et_al_2012)) and igraph ([Csárdi et al., 2023](#Csardi_et_al_2023)). One network connects units by the single closest fountain, in terms of walking time, to any door. The two other networks use incrementally larger time to fountain thresholds to map potential choices, also expanding social integration. These thresholds were defined by an additional 30-seconds and one-minute of walking time beyond that to the closest fountain, respectively.

Defining the Three Networks

**Figure 1** – The three network scenarios as applied to a single unit, the taberna at VI.10.12 (outlined and highlighted pink). **A)** The closest fountain to its external door. **B)** Fountains within 30 additional seconds to its closest fountain. **C)** Fountains within one additional minute to its closest fountain.

A couple examples illustrate how the three network scenarios were formed. Taberna VI.10.12, with only one door, is closest to fountain 25, a walk of one and a half minutes (fig. 1a). By expanding the time threshold by 30 additional seconds, four other fountains are reached (fig. 1b). Extending the threshold by a full minute from the closest fountain connects one more (fig. 1c). In the social network, the assumption is that inhabitants of this shop frequented each option indiscriminately.



**Figure 2** – The three network scenarios as applied to a single unit, the house at IX.6.5 (outlined and highlighted pink). **A)** The closest fountains to its two external doors. Also serves as its 30-second network. **B)** Fountains within one additional minute of the absolute closest fountain (n.40).

In the case of unit IX.6.5, a mid-sized house with two external doors, there is no single closest fountain as the nearest in terms of walking time varied by door (fig. 2a). Expanding the threshold by 30 seconds from the absolute closest (fountain 40) does not connect any additional fountains, but an additional minute of travel time would find these inhabitants visiting five other fountains (fig. 2b).

Following this process across all 1249 inhabited units in the city creates three different social networks with varying levels of interconnection. Although the larger project subjects these networks to a variety of global and local metrics to explore their characteristics, this paper solely focuses upon graph partitioning (table 1). To obtain a sense of the location and size of the neighbourhoods formed by water collection, each network had to be partitioned into communities. With its basis in the density of the social network, this should constitute a more robust approach to Pompeii’s fountain neighbourhoods than mere spatial distance alone, while also allowing for human agency with multiple fountain options for individual units.

**Table 1** – Global metrics of the three Pompeian fountain social networks.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Threshold** | **Edges** | **Graph Density** | **Network Diameter** | **Average Path Length** | **Transitivity** |
| Closest Fountain to Door | 27,267 | 3.5% | 15 | 5.6 | 0.908 |
| 30 Second | 50,240 | 6.4% | 9 | 3.8 | 0.705 |
| One Minute | 83,411 | 10.7% | 9 | 3.25 | 0.667 |

Modularity Optimization and Stochastic Results

Many community detection methods, such as the Louvain algorithm and the newer Leiden algorithm, rely upon modularity (), which is a measure of the quality of cluster partitioning ([Newman & Girvan, 2004](#Newman_and_Girvin_2004)):

Modularity compares the total weight of within community edges () to the expected weight in a random null model with the same degree distribution (). The denser the community in comparison to the null model, the higher its modularity score, and theoretically, the better the partition. However, modularity maximization of all but the smallest networks is NP complete if done brute force by testing every possible network configuration, making it impossible to compute absolutely. As a result, several less computationally demanding heuristic algorithms have been developed, Louvain and Leiden included, to approximate optimal partitions. Nonetheless, these suffer from limitations. Most produce stochastic results when run multiple times. They output a range of near-optimal partitions that are close to the true maximum, but often vary widely in composition. Modularity also has a resolution limit in which smaller communities are absorbed into larger ones, making it unable to detect communities smaller than a certain threshold depending on the size of the network.

The Louvain algorithm is among the most popular community detection methods used in network science ([Blondel et al., 2008](#Blondel_et_al_2008)). It is found in many network packages such as Gephi and R and Python igraph.[[1]](#footnote-1) Importantly, Louvain utilizes an adjustable resolution parameter () that controls the number of returned communities. This was intended to help users work around the resolution limit. By multiplying the null model against , greater values lead to dense, small, and more numerous communities. Small values have the opposite effect, leading to fewer loose, large communities. The resolution parameter, however, was not always available in every package, or was hidden within user guides, leading many people to use the default value of 1.

The Leiden algorithm improved the speed and quality of Louvain. It corrected an issue in which Louvain could create communities that were not internally connected ([Traag et al., 2019](#Traag_et_al_2019)). It also contains an optional alternate quality function called the Constant Potts Model (CPM) that avoids the resolution limit ([Traag et al., 2011](#Traag_et_al_2011)). In this version, the algorithm measures the quality of a partition not by comparing it against a null model, but by directly filtering out connections below a certain density threshold (the so-called constant, also called ). Like Louvain, Leiden is found in many of the most popular network packages.[[2]](#footnote-2) Due to its efficiency and accuracy, even with extremely large networks, Leiden is used exclusively in this paper as a community detection method for archaeological networks. Other community detection formulas can produce equally valid results, but these remain outside the focus of this study.

While resolution parameters were developed to give users more flexibility with which to explore their data, they lead to a bewildering set of choices. For any value of using either CPM or modularity, one can obtain numerous partitions. Modifying can produce any number of communities. But how can one determine which partition is the best representation of a particular set of data?

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can be explored by iterating the algorithm at multiple values of and comparing the number of communities produced. As an example, Leiden was run 25 times, with 20 iterations per run, along 5000 intervals within the range that produces fewer than 40 communities – the number of fountains in the network (fig. 3). In the current case study, only communities containing one or more fountains are valid. Leiden efficiently completed these 125,000+ iterations in only a few hours. Observing a plot of the results, one might be tempted to view plateaus of a certain number of communities across a range of as evidence of a more robust community structure at these levels. Nonetheless, stochasticity often produces different numbers of communities even at the same . This method, however, does not reveal meaningful information about the actual partitions produced. Although there are multiple partitions of, for example, 36 communities, across a range of , it does not mean that these all represent the same 36 communities. There could be significant differences between the results, such as communities composed of vastly different units, that are not apparent without further exploration. Yet, with so many solutions, it is impossible to directly compare them.

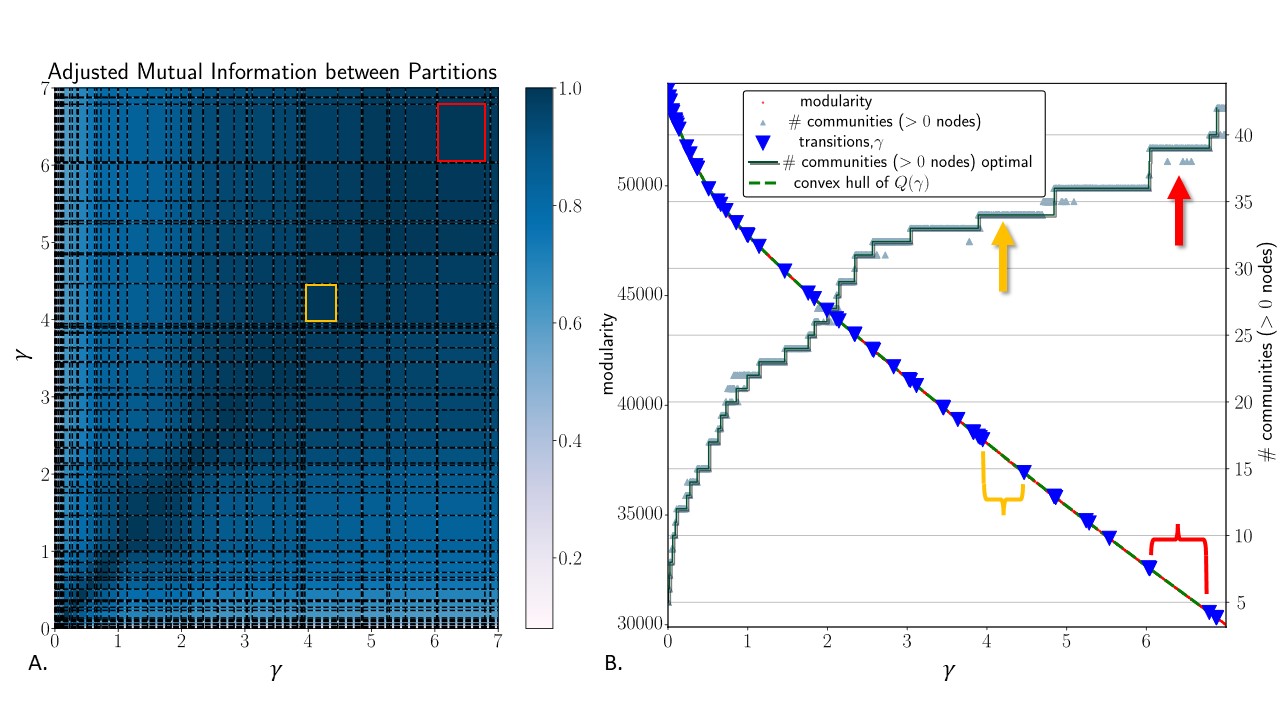
**Figure 3** – The number of communities partitioned by 125,000+ runs of the Leiden algorithm on the closest fountain by door network. 5,000 intervals between the minimum and maximum values of , with each value of run 25 times with 25 iterations per run. **A)** Constant Potts Model. **B)** Modularity.

The Convex Hull of Admissible Modularity Partitions (CHAMP)

Another algorithm, the Convex Hull of Admissible Modularity Partitions (CHAMP), available as a Python package, offers a method to significantly narrow down a subset of partitions that are potentially dominant ([Weir et al., 2017](#Weir_et_al_2017)).[[3]](#footnote-3) CHAMP plots the partitions as a linear function of and a modularity score slightly modified from that in equation (1). It then creates a convex hull of the intersections of these lines to identify the upper envelope boundary. This isolates the partitions that produced the greatest modularity score across a specific range of , which represent the best quality partition within that span. The pruned set of partitions can then be compared with respect to the width of the domain in which it is optimal and evaluated against the entire partition set using a pairwise Adjusted Mutual Information (AMI) heatmap. One can visually assess not only which partition has the widest domain of optimality, but also see how closely it relates to its neighbours in the space. This presents a more manageable and powerful method of directly comparing partitions than relying upon the number of communities alone. Importantly, it also eliminates from consideration the vast majority of sub-optimal partitions that result from stochasticity and improper selection for a given set of data.

Results and Discussion

This section presents the results of applying CHAMP across the three Pompeian fountain neighbourhoods to illustrate its utility in choosing partitions. It also offers some preliminary interpretations as they relate to defining urban neighbourhoods in Pompeii. At the time of analysis, CHAMP was unable to correctly work with CPM, so modularity alone was used. As a heuristic for exploring network data, modularity is likely more appropriate as the null model uses the network structure to identify clusters rather than an arbitrary density imposed by the user. The script was also slightly modified to correct minor errors and meet the requirements of this study.[[4]](#footnote-4) CHAMP was run on each of the three networks twice - once with 1000 gamma intervals and again with 5000 intervals - to test its reproducibility. The results were far more consistent than a typical Leiden run, with each iteration producing the same top partitions almost each time.

Closest Fountain to Door Network

**Figure 4** – Closest Fountain to Door Network. Results of CHAMP using Leiden algorithm with modularity. 5000 intervals between 0 and 7 at 25 iterations each. **A)** Pairwise adjusted mutual information (AMI) of the subset of partitions identified by CHAMP. Dashed lines represent transitions between ranges of . The widest domain ( 6.04 - 6.79, 39 neighbourhoods) is outlined in red. Second widest domain ( 3.95 - 4.47, 34 neighbourhoods) in yellow. **B)** Modularity versus . Grey upward triangles represent partitions, while the green stepped line shows the number of communities in the optimal partition for the range of gamma. The green dashed line is the convex hull. Blue downward triangles show the transition points between various ranges of . The red arrow / bracket identifies the widest domain (39 neighbourhoods). The orange arrow / bracket the second widest (34 neighbourhoods).

With the network formed by the closest fountain to each unit door, CHAMP pruned 200 unique partitions down to 60, but this still represents a rather volatile community structure (fig. 4). The widest domains are mainly found in higher values, with 34 or more communities. This is expected since the network exhibits a modular topology with few interconnections between clusters. Many partitions, however, are remarkably similar to each other, as indicated by the uniformity of dark blue in the AMI matrix. The widest domain in both CHAMP runs was a partition of 39 communities. This partition, however, contains three singleton communities - single housing units defined as whole neighbourhoods. For the purposes of this study, this partition must be rejected, underlining the importance of closely inspecting the output of the algorithm within the parameters of specific research questions.

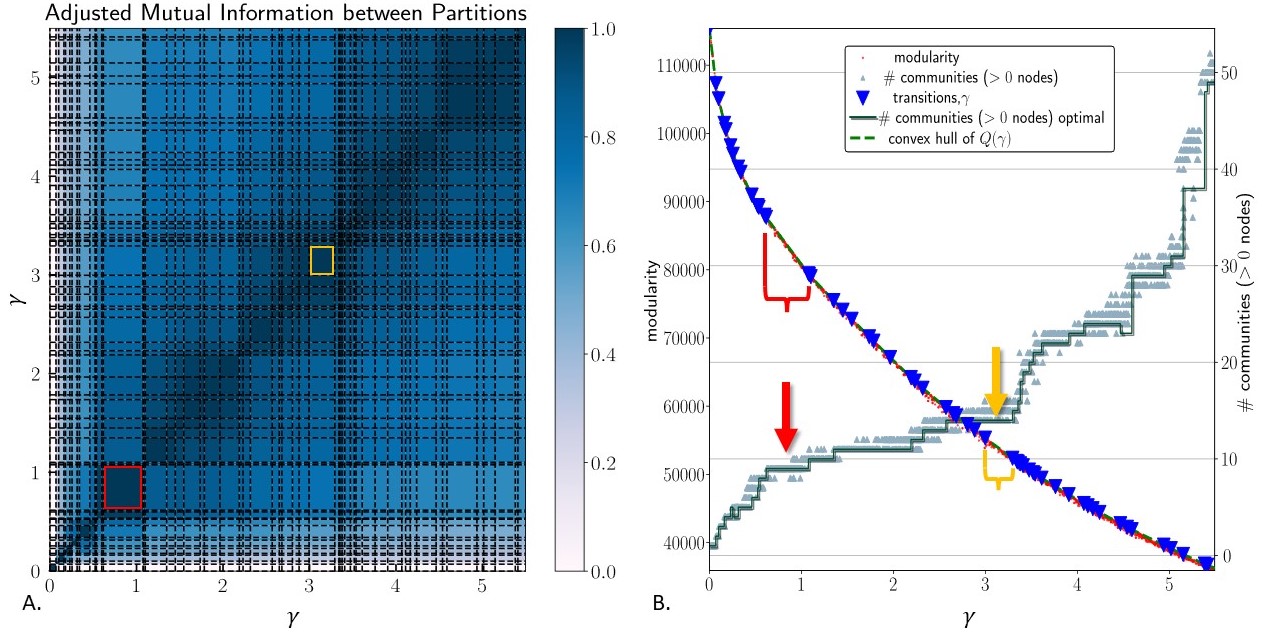
A map of a fountain

Description automatically generated

**Figure 5** – Closest Fountain to Door Network. Partition into 34 neighbourhoods as identified by the second widest domain output by CHAMP. Colours represent neighbourhoods as partitioned by CHAMP. Dashed lines outline zones defined by the single closest fountain to each unit in the spatial network.

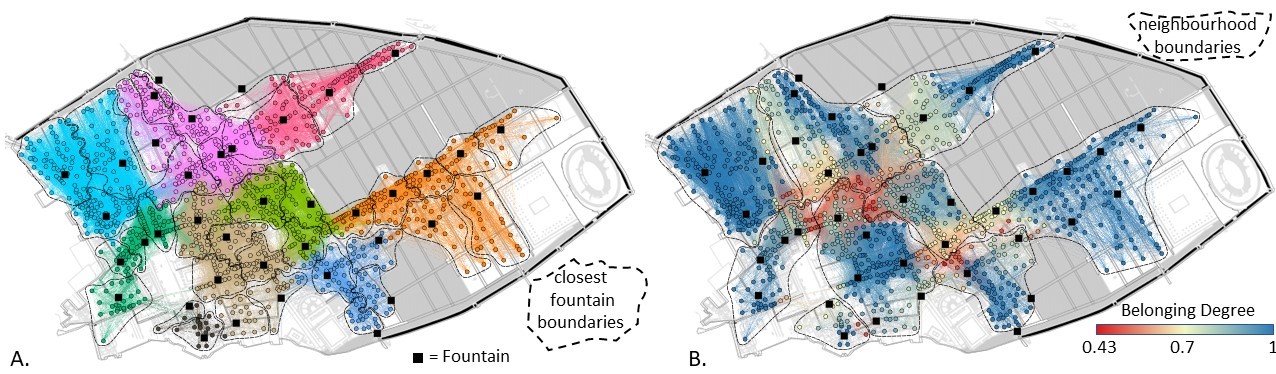
The next widest domain is a partition into 34 neighbourhoods. Mapping this partition in topographical space and colouring each node by its community permits a visual inspection of the neighbourhoods’ spatial characteristics (fig. 5). Dotted lines indicate the boundaries of the closest fountain in the *spatial* network, that is, the single closest fountain in terms of walking time from any external door belonging to a unit, allowing comparison between the two. The detected neighbourhoods largely mirror the closest fountain to each unit in the spatial network, except for 6 communities formed by pairs of adjoining fountain users in the spatial network (e.g., the light blue neighbourhood near the Vesuvian gate). Interestingly, these neighbourhoods must share enough interconnection to constitute single communities, defying the overall pattern. Nonetheless, these results affirm an insular network structure in which a tiny number of units formed vital interconnections between small, tightly clustered neighbourhoods.

30 Second Network



**Figure 6** – 30 Second Network. Results of CHAMP using Leiden algorithm with modularity. 5000 intervals between 0 and 5.5 at 25 iterations each. **A)** AMI of the subset of partitions identified by CHAMP. The widest domain ( 0.62 – 1.08, 9 neighbourhoods) is outlined in red, third widest ( 3.0 – 3.3, 14 neighbourhoods) in orange. **B)** Modularity versus . The red arrow / bracket identifies the widest domain (9 neighbourhoods), orange arrow / bracket the third widest (14 neighbourhoods).

The 30 second network, with almost double the number of edges, represents a much more interconnected city, and this is reflected in the CHAMP results (fig. 6). The algorithm pruned more than 2400 unique partitions down to 58. A 9-neighbourhood partition, clearly delineated in the AMI heatmap, was returned as the widest domain twice. However, also visible in the matrix are at least four other “scales” of smaller communities at larger ranges of gamma. These are represented by larger dark blue rectangles in the AMI plot that cross several dashed transitions. These might represent sub-divisions of the 9 neighbourhoods, or another kind of grouping altogether, a topic further explored below. Comparing the 9-neighbourhood map to the closest fountain divisions, we can see these communities combine users of several fountains, but near the interfaces some units are grouped with more distant fountains (fig. 7a). These internal community characteristics can be intuitively measured using belonging degree ([Poorthuis, 2018](#Poorthuis_2018)) (fig. 7b). This is the fraction of a node’s intra-community weight over its total weight. Nodes with a belonging degree of 1 only share ties with other community members, while those with lower values share ties with nodes in other neighbourhoods. Not surprisingly, nodes with the lowest belonging degree are found in the centre of the city, adjacent to neighbourhood boundaries. Nodes with low levels of belonging are likely those whose community membership might shift stochastically with each iteration of most community detection algorithms. The hearts of the neighbourhoods though are far more stable.



**Figure 7** – 30 Second Network. Partition into 9 neighbourhoods as identified by the widest domain identified by CHAMP. **A)** Colours represent neighbourhoods as partitioned by CHAMP. Dashed lines outline zones defined by the single closest fountain to each unit in the spatial network. **B)** Colour ramp represents each node’s belonging degree. Dashed lines outline the neighbourhood boundaries as partitioned by CHAMP.

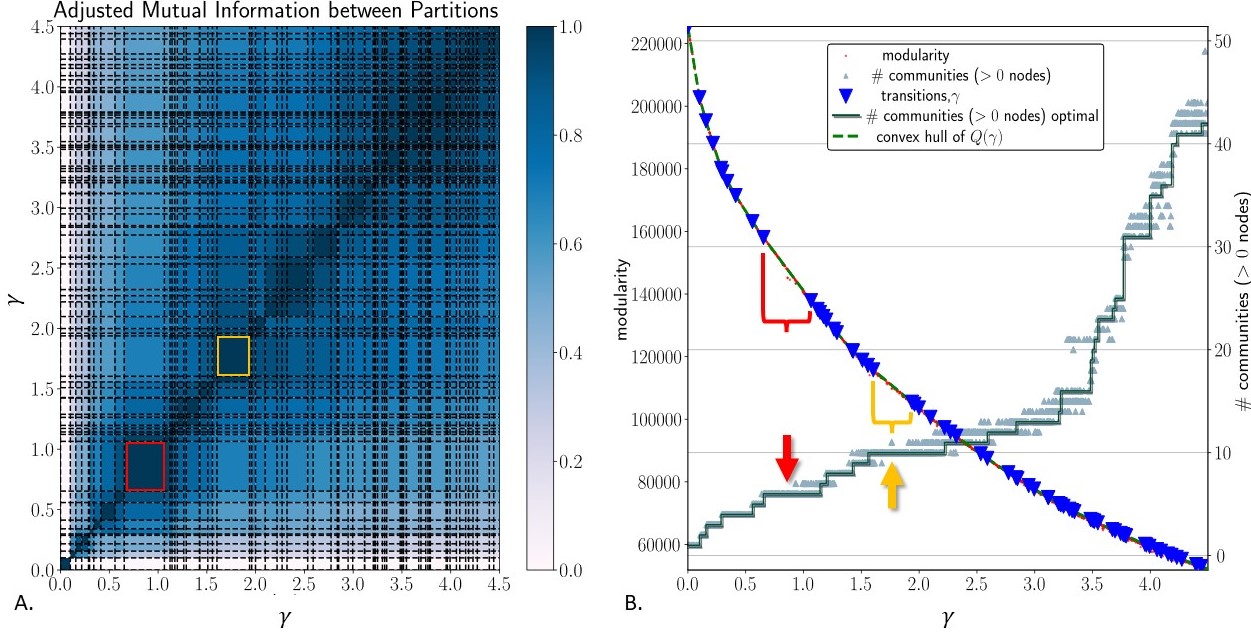
The second widest domain returned by CHAMP, with 29 neighbourhoods, was rejected due to singleton communities, but the third widest consists of 14 communities. A contingency table allows us to assess whether these represent smaller subdivisions of the 9-neighbourhood partition (table 2).

**Table 2 –** Contingency table. 30 second network. Widest domain (9 neighbourhoods, lettered) compared with third widest domain (14 neighbourhoods, numbered).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | All |
| A | 0 | 129 | 0 | 0 | 0 | 0 | 81 | 0 | 5 | 0 | 0 | 0 | 0 | 15 | 230 |
| B | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 77 | 0 | 0 | 69 | 0 | 0 | 39 | 190 |
| C | 0 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 59 | 0 | 188 |
| D | 134 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 170 |
| E | 0 | 0 | 0 | 0 | 106 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 143 |
| F | 0 | 0 | 0 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 |
| G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 0 | 0 | 37 | 0 | 0 | 103 |
| H | 0 | 0 | 0 | 0 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 |
| I | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 23 |
| All | 134 | 129 | 125 | 114 | 106 | 93 | 81 | 77 | 75 | 73 | 69 | 60 | 59 | 54 | 1249 |

Some of the 14 districts are equal subdivisions of larger communities. Neighbourhoods 3 and 13 in the 14-neighbourhood partition, for example, mostly bisect neighbourhood C in the 9-district partition. However, other small communities cut across larger ones, taking nodes out of two or three, often those with low belonging degrees. For instance, number 9 in the 14-neighbourhood partition draws in units from neighbourhoods A, C and G, while community 10 is evenly split between neighbourhoods D and E. In terms of Pompeian neighbourhood structures, this might suggest that at smaller scales, the composition of communities would have cut across larger neighbourhood boundaries, rather than forming clean subdivisions of these greater social districts.

One Minute Network



**Figure 8** – One Minute Network. Results of CHAMP using Leiden algorithm with modularity. 5000 intervals between 0 and 4.5 at 25 iterations each. **A)** AMI of the subset of partitions identified by CHAMP. The widest domain ( 0.65 – 1.06, 6 neighbourhoods) is outlined in red, second widest ( 1.6 – 1.94, 10 neighbourhoods) in orange. **B)** Modularity versus . The red arrow / bracket identifies the widest domain (6 neighbourhoods), orange arrow / bracket the second widest (10 neighbourhoods).

The one minute network is the densest and most complex of the three. This suffered from a great deal of stochasticity running Leiden independently, but CHAMP returned 70 partitions out of over 1800 unique results. The widest domain is a clearly delineated partition of 6 communities (fig. 8). One would anticipate a greater degree of integration across the city with the longer time threshold, and these results confirm that hypothesis. These 6 divisions largely reflect the topographical divide formed by the forum and the Via del Vesuvio / Stabiana corridor, which bisects the city north to south (fig 9a). The orange neighbourhood, however, constitutes an important bridge connecting east and west. In terms of belonging degree, the lowest scoring units are as usual found near the edges, but the centre of the city again represents the area with the lowest community cohesiveness (fig 9b). Nonetheless, the preponderance of blue nodes (100% belonging) indicates these are durable neighbourhoods in which individuals were unlikely to cross paths with outsiders.

![A drawing of a map

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SnkRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjA3OjI1IDExOjU0OjU5AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 9** – One Minute Network. Partition into 6 neighbourhoods as identified by the widest domain identified by CHAMP. **A)** Colours represent neighbourhoods as partitioned by CHAMP. Dashed lines outline zones defined by the single closest fountain to each unit in the spatial network. **B)** Colour ramp represents each node’s belonging degree. Dashed lines outline the neighbourhood boundaries as partitioned by CHAMP.

The second widest domain identified by CHAMP is a partition of 10 communities, still representing rather large subdivisions of the city, but a more modular structure than the top result (table 3).

**Table 3 –** Contingency table. One Minute Network. Widest domain (6 neighbourhoods, lettered) compared with second widest domain (10 neighbourhoods, numbered).

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **All** |
| **A** | 0 | 0 | 144 | 144 | 0 | 0 | 17 | 0 | 0 | 3 | 308 |
| **B** | 0 | 43 | 0 | 0 | 0 | 119 | 0 | 0 | 90 | 0 | 252 |
| **C** | 196 | 0 | 0 | 0 | 0 | 10 | 8 | 0 | 1 | 31 | 246 |
| **D** | 0 | 0 | 0 | 0 | 130 | 0 | 88 | 0 | 0 | 0 | 218 |
| **E** | 0 | 126 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 126 |
| **F** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99 | 0 | 0 | 99 |
| **All** | 196 | 169 | 144 | 144 | 130 | 129 | 113 | 99 | 91 | 34 | 1249 |

Comparing this against the 6-community structure, we can again see that some smaller neighbourhoods bisect the larger divisions. Here, number 7 in the 10-neighourhood partition is formed by large groups of units from two of the 6-neighbourhood partition communities (A and D), as well as 8 nodes from C. Numbers 3 and 4 in the 10-neighbourhood partition, on the other hand, are entirely subdivisions of the large neighbourhood A. This reminds us that some larger neighbourhoods remained internally closed, even at more individual, face-to-face, scales, while others became mixed at these smaller scales.

Conclusion

This brief discussion only touches upon the variety of analysis possible using community detection to partition archaeological neighbourhoods. By identifying multiple dominant partitions across different ranges of gamma, CHAMP offers a multiscalar approach to network community detection within single networks. This case study, however, already considers different network scales using time thresholds. One could also directly compare the top partitions in each of the three networks.

Another useful measure of neighbourhood integration is the intra-cluster density, that is the total density of node ties within a community. Since ties represent units that used a common fountain, the greater the density, the higher the probability that inhabitants met face-to-face. Larger neighbourhoods have lower intra-cluster densities, meaning neighbours were far less likely to meet face-to-face at a fountain even though they shared more social connection in general compared to other regions of the city. Few neighbourhoods in the one minute network’s 6-community partition rise above 50%. In such communities, ties between neighbours must have been more dispersed, relying upon mutual contacts. Intra-cluster densities approaching 100%, however, would mean that inhabitants of almost every housing unit had an equal chance of rubbing shoulders at a fountain. These would be the most cohesive and perhaps the most bonded neighbourhoods, with almost daily direct contact between households. 28 out of the 34 neighbourhoods in the closest by door network achieve 100%, but not all. The remaining six range from 52 to 74%.

It should be emphasized that there is no single “correct” community partition. Rather, utilizing the resolution parameter and examining its output in CHAMP offers a multiscalar method of assessing graph partitioning. The choice of scale should be determined with respect to the data and the research questions. CHAMP’s utility lies in its ability to narrow down the range of potential options and identify larger patterns across a range of gamma, rather than relying upon an arbitrary choice of partition returned by the default algorithm settings or a single iteration.

As a tool for identifying urban neighbourhoods, this approach holds much potential. A more complex Pompeian network that incorporates additional variables of social integration beyond fountains, such as bakeries, bars, communal shrines, and baths, would constitute a much more multifaceted social network. Such dense networks would be nearly impossible to partition using topology alone. Thankfully the algorithms outlined here can efficiently handle extremely large and convoluted networks, returning manageable but statistically solid outputs suitable for detailed analysis and interpretation.

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Data, scripts, code, and supplementary information availability

All of the data and scripts used in this article are available online at <https://zenodo.org/badge/latestdoi/686189050>.

Conflict of interest disclosure

The author declares that he complies with the PCI rule of having no financial conflicts of interest in relation to the content of the article.

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1. <https://github.com/vtraag/louvain-igraph>; <https://r.igraph.org/> [↑](#footnote-ref-1)
2. <https://github.com/vtraag/leidenalg>; <https://r.igraph.org/>; <https://gephi.org/plugins/#/plugin/leiden-algorithm-gephi-plugin> [↑](#footnote-ref-2)
3. <https://github.com/wweir827/CHAMP> [↑](#footnote-ref-3)
4. Modified code and data are available online: <https://zenodo.org/badge/latestdoi/686189050> [↑](#footnote-ref-4)