

POL486: Networks in International Politics

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1 Introduction to Network Analysis

1.1 Olga V. Chyzh. Network analysis in international relations. In Cameron G. Thies, editor, Handbook of International Relations, pages 158–170. Edward Elgar Publishing, 2025.

1.1.1 Networks in International Relations

Core Premise: International politics is inherently networked. Actors (states, organizations, individuals) are interconnected nodes, and their relationships (alliances, trade, conflict) are ties.

Significance of Networks:

- Membership in international clubs (e.g., NATO, EU, WTO) offers security, prestige, and economic benefits.
- Exclusion can lead to insecurity and foreign policy revisionism.
- Network embeddedness affects policy options and resource access.

Historical Context: IR scholars have long recognized the networked nature of global politics, but network analysis provided the specific tools to better align theory with empirical evidence.

Critique of Traditional IR Research:

- Network scholars criticized previous IR research, particularly the **dyadic design**, for its failure to account for interdependence among actors.
- The assumption of independence in dyadic analysis can lead to confounding bias, attributing effects to incorrect causes. For example, the US-Japan and US-South Korea relationships influence the Japan-South Korea relationship.

1.1.2 Methodological and Theoretical Contributions

Primary Contribution: Network analysis offered a way to measure previously unmeasurable concepts like system polarity, social power, and prestige. It also generated new research questions about connectivity.

Three Main Research Approaches:

- **Global Network Properties:** Studies focus on properties of the entire network, such as density of fractionalization, to explain outcomes like conflict and cooperation.
 1. **Example:** Maoz (2006) used network analysis to create a theory-informed measure of international system polarization, a concept previously hard to operationalize.
 - **Example:** Cruz, Labonne, and Querubin (2020) found that greater fractionalization (power divided among more clans) in local kinship networks in the Philippines was associated with better public goods provision.
 2. **Actor Positions:** This approach analyzes the positions of individual actors within a network to understand power and influence.
 - **Brokerage/Gate-keeping Power:** Held by actors connecting otherwise discontinued clusters.
 - **Network Centrality:** Used as a proxy for concepts like country prestige (Renshon 2016) or an organization's agenda-setting power (Carpenter 2011).
 3. **Overlapping Membership:** This approach examines how overlapping memberships reinforce each other's effects.

- **Example:** Parkison (2013) showed that sustaining an insurgency depends on the overlap between military networks and personal networks (kinship, friendship).
- **Example:** Eldredge and Shannon (2022) found that countries with high membership overlap in inter-governmental organizations are more likely to object to each other's human rights treaty reservations.

1.1.3 The Debate and Normalization of Network Analysis in IR

The 'Us-vs-Them' Debate: Early proponents of network analysis adopted a provocative framing, creating divisions within IR.

Points of Resistance: Critics argued that the traditional dyadic approach had not impeded major theoretical advances (e.g., the democratic peace) and that research designs should be tailored to the specific question, rather than assuming interdependence as the default.

Mainstreaming the Approach (c. 2016):

- An exchange in *International Relations Quarterly* between proponents and critics marked a key moment.
- A special issue on networks in *Journal of Peace Research* showcased the breadth of applications.
- The field of political methodology quickly welcomed and published inferential network analysis research.
- Subsequently, network research began appearing in top disciplinary journals, at major conferences, and in university curricula.

1.1.4 Current Research and Future Directions

Addressing Endogeneity: Developing tools to separate actor-level effects from network-level effects (e.g., democracy vs. clique size in trade).

Flexible Conceptualization: Re-evaluating the unit of analysis, such as treating alliances themselves as nodes to study action-reaction processes.

Expanding Scope: Applying network analysis to subnational and transnational levels, including rebel groups, NGOs, and political elites.

Social Media Data: Utilizing vast, inherently networked data from social media to study mobilization, censorship, and misinformation.

Future Directions:

- **Develop IR-Specific Theories:** Move beyond borrowing sociological theories to build network theories tailored to IR's unique actors and assumptions (e.g., anthropomorphizing states).
- **Model Hierarchical Networks:** Incorporate asymmetrical and hierarchical relationships, not just horizontal ones between equal actors.
- **Integrate Casual Inference:** Bridge network analysis with experimental and quasi-experimental methods to test network predictions more rigorously.
- **Model Co-evolution:** Better theorize and model the endogenous relationship where actor characteristics are both a cause and an effect of their network ties.

2 Network Centrality

2.1 John F. Padgett and Christopher K. Ansell. Robust action and the rise of the Medici, 1400-1434. *American Journal of Sociology*, 98(6):1259–1319, 1993.

2.1.1 Introduction and Core Argument

Central Claim: The rise of Medicean political control (1400-1434) in Florence, leading to the Renaissance state, was driven by **network disjunctures** within the elite that the Medici alone spanned.

Methodology: To understand state formation, one must move beyond formal institutions, groups, and goals to the **relational substrata** of people's actual lives. **Ambiguity and heterogeneity**, not planning and self-interest, are the raw materials of powerful states and persons.

Key Concept: *Robust Action*, Cosimo de Medici's (1380-1464) control style, characterized by **multivocal identity** as '**sphinx**', which harnessed power from these 'network holes' and resolved the inherent contradiction between 'judge' and 'boss' in organizations.

2.1.2 Core Concepts Explained

Political Centralization and the Judge/Boss Contradiction

- State-building involves centralizing power, a contradictory process requiring both reproduction (rules creating roles, interests, collective action patterns) and control (others' interactions serving one's interests).
- The contradiction: A founder cannot be both an impartial 'judge' (legitimacy through non-self-interest) and a controlling 'boss' (direct intervention undermines legitimacy).

Robust Action:

- **Definition:** A style of control where single actions can be coherently interpreted from multiple perspectives simultaneously (multivocality), serve as moves in many 'games' at once, and blur public/private motivations.
- **Mechanism:** Leads to 'Rorschach blot identities', where others attribute their own distinctive identity to the ego (Cosimo).
- **Goal:** Maintaining **flexible opportunism** and discretionary options in unpredictable futures, rather than pursuing specific, fixed goals. This involves **positional play:** maneuvering opponents into clarifying *their* (not your) tactical lines of action.
- **Resolution of Judge/Boss:** Credible robust action works because the center (Cosimo) appears to have **no unequivocal self-interests**; he 'merely' responds to requests. Control is diffused, as others infer and serve his inscrutable interests.
- **Preconditions:** Requires specific network structures for channeling requests and opaque, coherent interests to be credible.

2.1.3 Historical Context: Florence (1400-1434)

Transition: From late medieval urban factionalism to a regionally consolidated Renaissance state.

Ultimate Causes: Unsuccessful class revolt (Ciompi revolt, 1378-82) and severe fiscal crisis due to wars (Milan and Lucca wars, 1424-33).

Medici's Rise: Cosimo de Medici (1389-1464) founded a dynasty, consolidated a Europe-wide banking network, and sponsored the Renaissance.

Cosmio's 'Sphinx-Like' Character:

- Contemporaries deeply appreciated his power, yet eyewitness accounts describe him as indecipherable.
- He remained in the background, acting through deputies, with little known of his direct responsibilities.
- He never assumed lasting public office and rarely gave public speeches.
- His actions appeared reactive, serving his 'extremely multiple interests'.
- His replies were often brief and obscure, sometimes Delphic or using proverbs, allowing double interpretations.

2.1.4 Methodology and Data

Approach: An 'archaeological dig' into the structural preconditions for Medici's success, focusing on the composition and social network structure of the Medici party versus their opponents, the 'oligarchs'.

Sources: Based on extensive historical work, especially Dale Kent's 'The Rise of the Medici' (1978). Supplemented by 1427/1433 catasto (tax registers), Najemy (1982), and Martines (1963).

Data Types (9 types of relations among elite families):

- **Kinship:** Intermarriage ties (assymetric, 1394-1434).
- **Economic:** Trading/business ties, joint ownerships, bank employment, real estate ties.
- **Political:** Patronage and personal loans (multifaceted motives).
- **Personal:** Friendship, mallevadori (surety) ties.

Definitions:

- **Family:** Operationalized as 'people with a common last name' (clan), consistent with Florentine social reality and data limitations.
- **Elite:** Families meeting any of three criteria:
 - 2+ members speaking in Consulte e Prtiche (1429-34);
 - *3_m members qualified for scrutiny (election to high office) in 1433; Magnate clan (215 families identified, 92 for network and 123 for other purposes)*
- **Blockmodel Analysis:** Aggregates actors (families) into structurally equivalent 'blocks' based on common external ties with outsiders, not dense internal relations (cliques). Used to visualize marriage and economic networks ('strong ties', fig. 2a) and political/friendship networks ('weak ties', fig 2b).

2.1.5 Empirical Findings: Attributional vs. Network Structure

Attributional Analyses (Challenging Traditional Views):

- **Economic Class (Wealth/Change in Wealth):** Both Mediceans and oligarchs were wealthy, but their wealth distributions were statistically identical and highly heterogenous. Not a Marxist class struggle.
- **Social Class (Presitge/Political Age):** Oligarch were more skewed towards older participants due to the *absence* of 'new men' from their party, not absence of particians from the Medicean side. Mediceans were more socially heterogenous, and relative to neutrals, were distinctly 'old-guard patrician'.

- **Neighbourhood Residence:** No statistically significant difference, both parties mirrored each other in geographical concentration, especially in San Giovanni. San Giovanni was the most polarized quarter.
- **Conclusion:** There was a **structural mismatch** between contemporaries' clear cognitives typifications (oligarchs as old, wealth patricians; Mediceans as heroes of rising new men) and the objective heterogeneity and overlap of social groups at the behavioural level. Classical group theories of parties (pluralist/neo-Marxist) are insufficient.

Social Network Structure (Blockmodel Analysis):

- **Predictive Power:** Marriage and economic blockmodels remarkably predict political partisanship, despite attributional identity. The Medici family itself bridged both sides.
 - 93% of families within the 'Medicean circle' were Medici partisans.
 - 82% of other partisan families (excluding neutrals) joined the oligarch side.
- **Medici Party Structure:** An extraordinarily **centralized 'star' or 'spoke' network system**.
 - Medici partisans were connected to other partisans and the oligarch elite almost solely *through the Medici*.
 - Medici partisans had remarkably few intraelite network ties, being 'structurally impoverished'.
- **Oligarch Party Structure:** Densely interconnected, especially through marriage, but this density led to **cacophony and cross-pressure**, not cohesive collective action (e.g., Rinaldo Albizzi's failed mobilization).
- **The Structural Atomization Puzzle:** Why did this centralized spoke system maintain itself.
 - Medici followers had clear incentives to form cross-ties to alleviate dependence.
 - The Medici discouraged **multiplex ties** (overlapping marriage and economic relations) with their followers, and also segregation of types of ties with the Medici themselves.
- **Resolution: Double Segregation of Attributes**
 - **Patrician Supporters:** Wealthy, old patricians (e.g., Guicciardini, Tornabuoni blocks) intermarried with the mEdici, but resided *outside* the San Giovanni quarter.
 - **New Men Supporters:** Connected to Medici through economic or personal loan ties (e.g., Ginori, Orlandini, Cocco-Donati blocks), but resided *within* San Giovanni.
 - **Mechanism:** Patricians and new men despised each other and had limited interaction. Only the Medici linked these segments. This structural isolations inhibited defensive counter-alliances ('revolt of the colonels').
 - **Medici Strategy:**
 - * In marriage and friendship, Medici were highly selective (snobbish, marrying other patricians).
 - * In the economic sphere, they associated heavily with new men, unlike other elite families.
 - * Their distinctiveness was *associating with enw men at all*, not representing them.
 - **New Men's Responsiveness:** 90-96% of new men economically/politically tied to Medici became active partisans. This was not due to active Medici mobilization of new men as a whole, but the *oligarchs extraordinary inaction* towards them, elaving new men 'structurally available'. Oligarchs' polemics branded Medici as 'class traitors' ("heroes of then new men").
- **Control Mechanisms:**
 - Spoke structure ensured dependence and channeled communication through Medici.
 - Double segregation prevented counter-alliances among partisans.
 - Formal affine relations with distant patricians (less frequent contact) contrasted with friendly, useful business ties with local new men (where status gap ensured deference).

- Attributional heterogeneity made Medici a potent ‘swing vote’.
- **Contradiction was key to control**, especially with intense surrounding cognitive group identities.