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Agent-based modeling of China's rural-urban migration and social network structure

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#### **ACCEPTED MANUSCRIPT**

#### Highlights (for review)

### Highlights:

- An agent based approach to population-scale social networks is feasible
- Migratory actions underpin the emerging migration network
- A core-periphery structure by k-core signifies the emergence of a migration network
- A step-wise sampling method to optimize the parameter space

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