



graspologic: network analysis in Python

github.com/microsoft/graspologic

downloads 163k

Stars 269

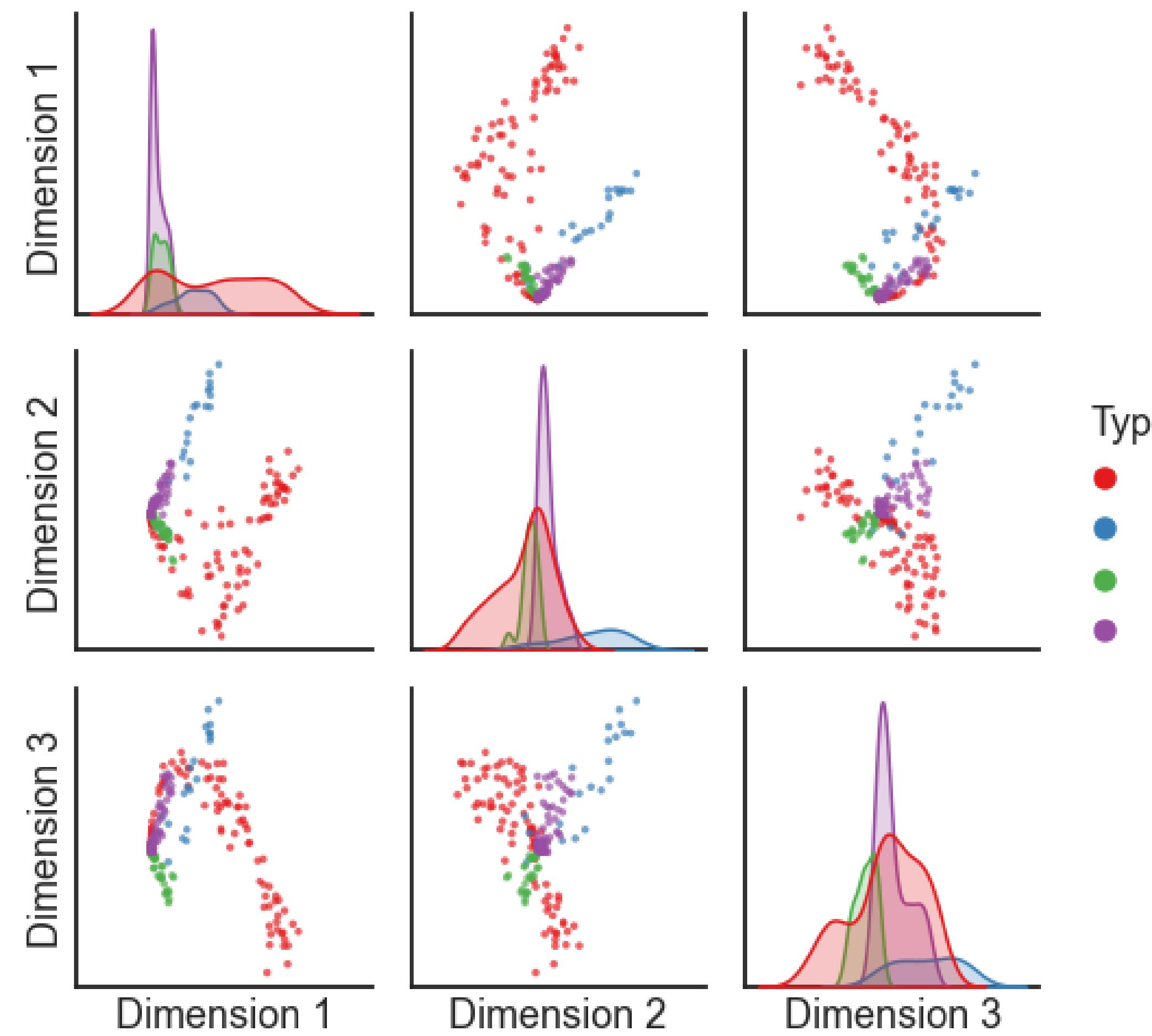
contributors 52

License MIT

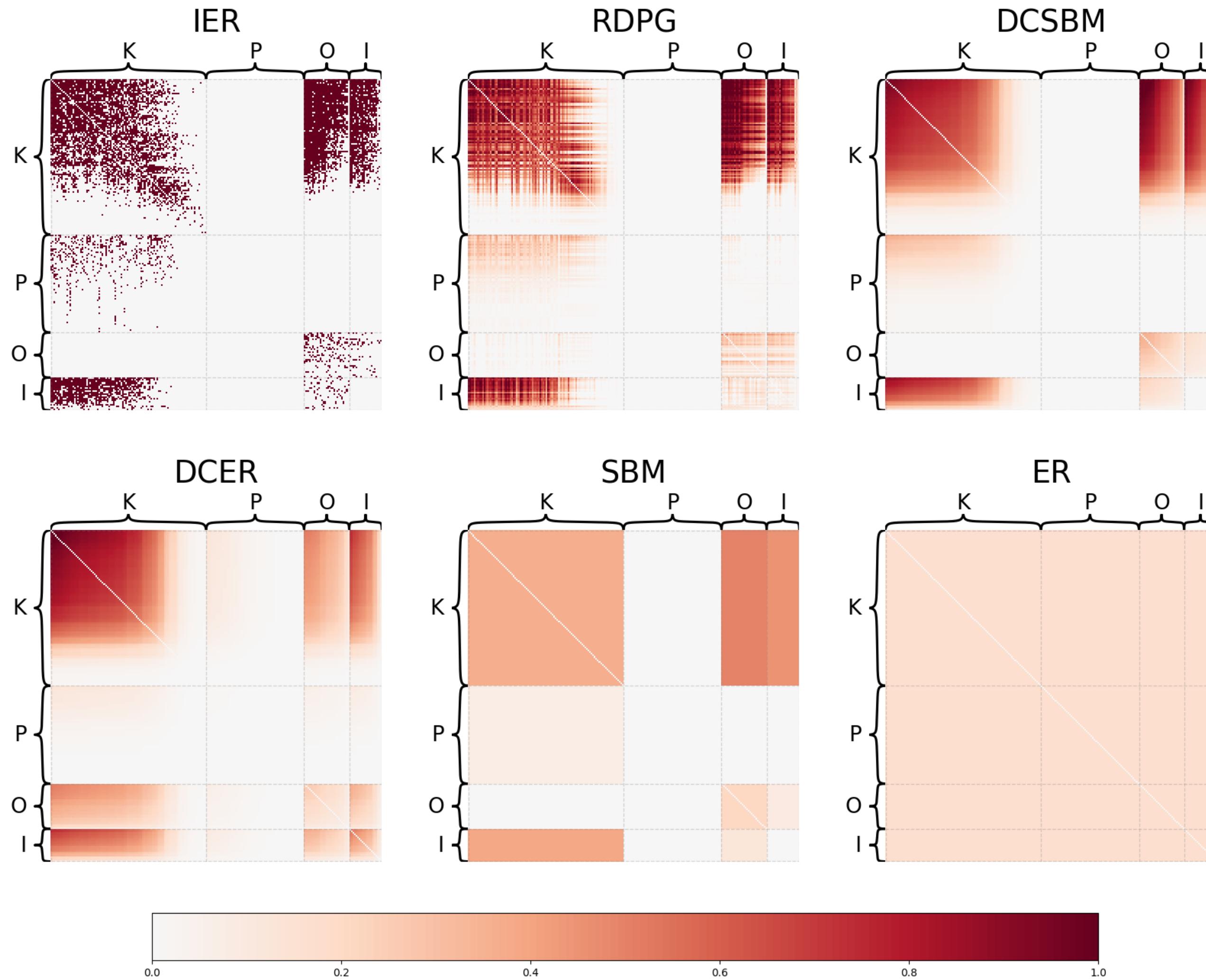
JOHNS HOPKINS
UNIVERSITY

Microsoft
Research

Network dimensionality reduction

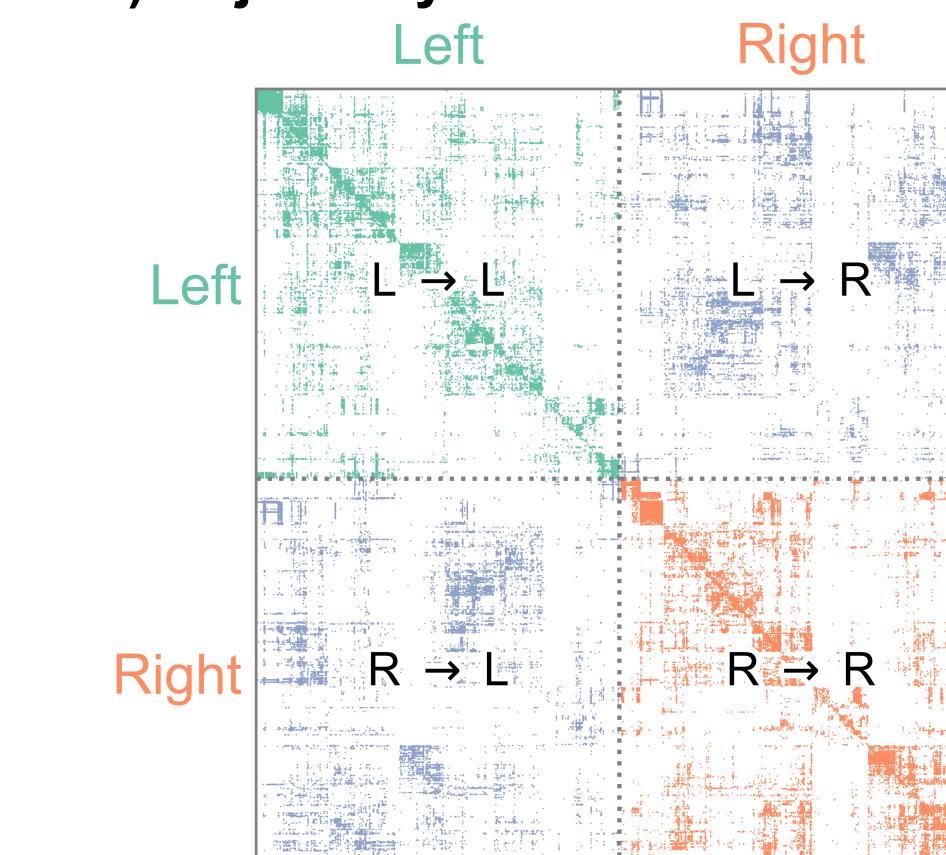


Model estimation and sampling

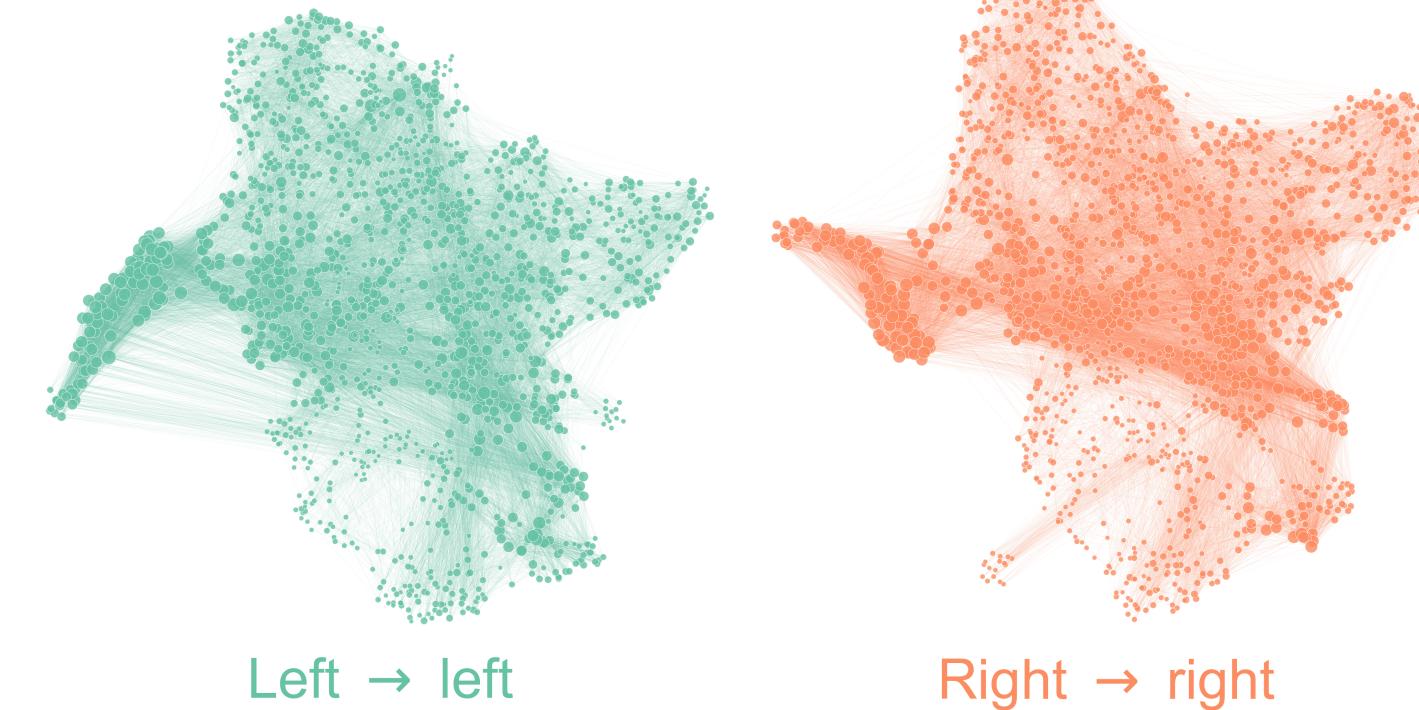


Statistical testing

A) Adjacency matrix



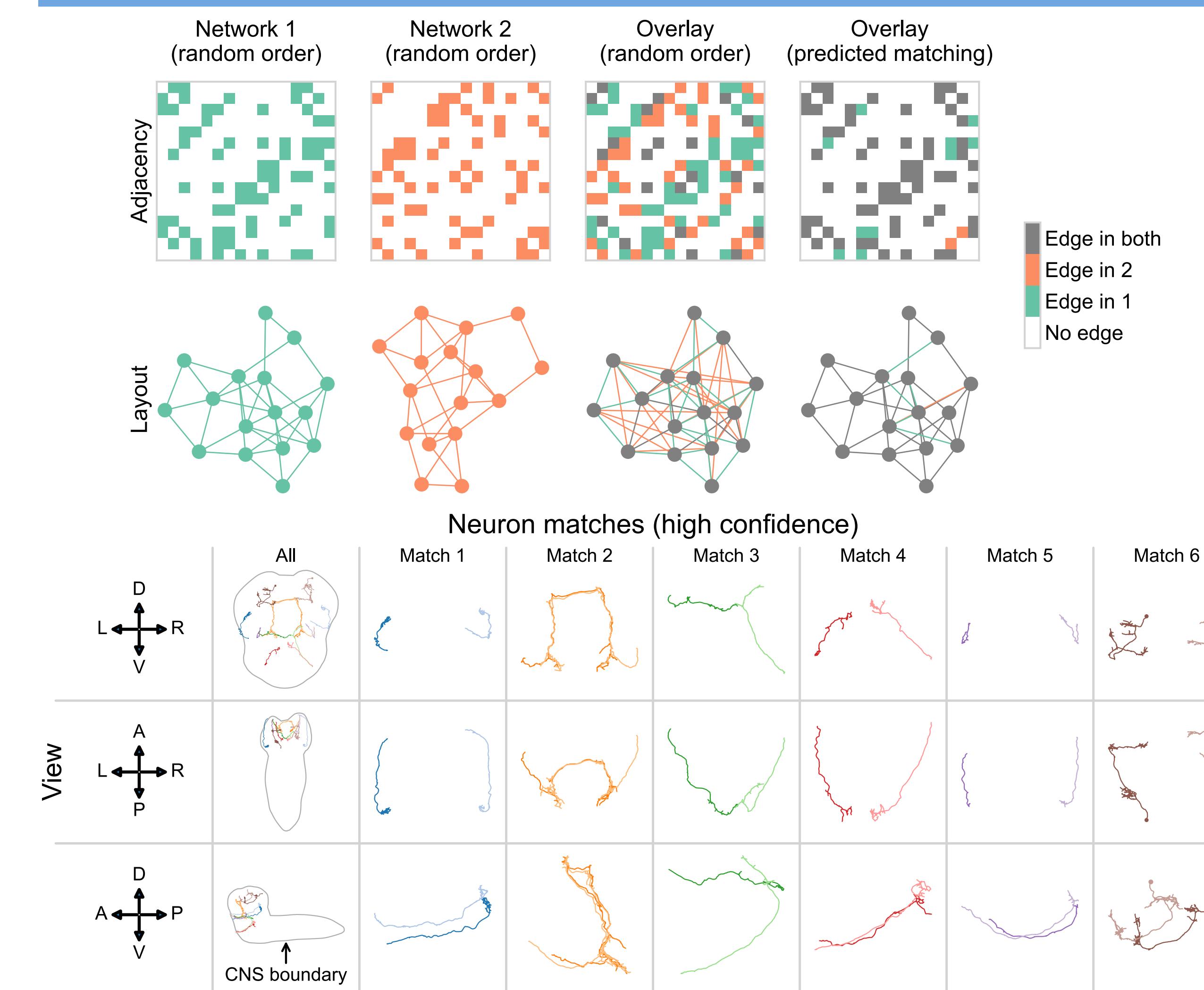
B) Diagrams for ipsilateral networks



Are the **left** and **right** sides of this connectome
different?

- $A^{(L)} \sim F^{(L)}$, $A^{(R)} \sim F^{(R)}$
- $H_0 : F^{(L)} = F^{(R)}$
 $H_A : F^{(L)} \neq F^{(R)}$

Graph matching



Citation

jmlr.org/papers/volume20/19-490/19-490.pdf

Chung, J.,* Pedigo, B. D.,* Bridgeford, E. W., Varjavand, B. K., Helm, H. S., & Vogelstein, J. T. (2019). GraSPy: Graph Statistics in Python. *J. Mach. Learn. Res.*, 20(158), 1-7.