Conclusion

- How to generalize GPs to non-Euclidean domains? SDE framework

- What is a good edge GP? Edge dependency + Hodge decomposition

- Node-edge-triangle joint GPs Alain et al. 2023

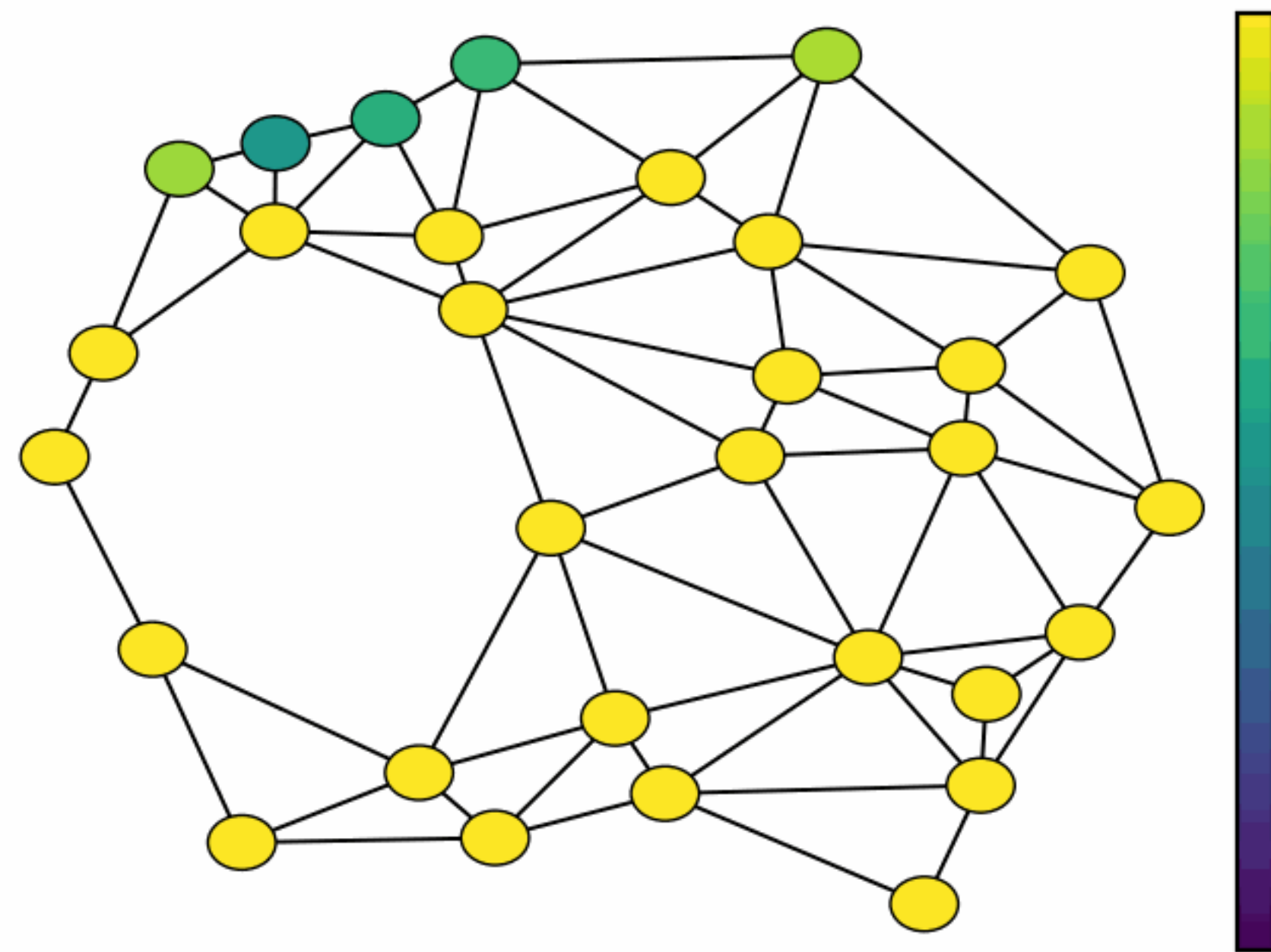- Continuous version: Euclidean VF Berlinghieri et al. 2023; Manifold VF Robert-Nicoud et al. 2024
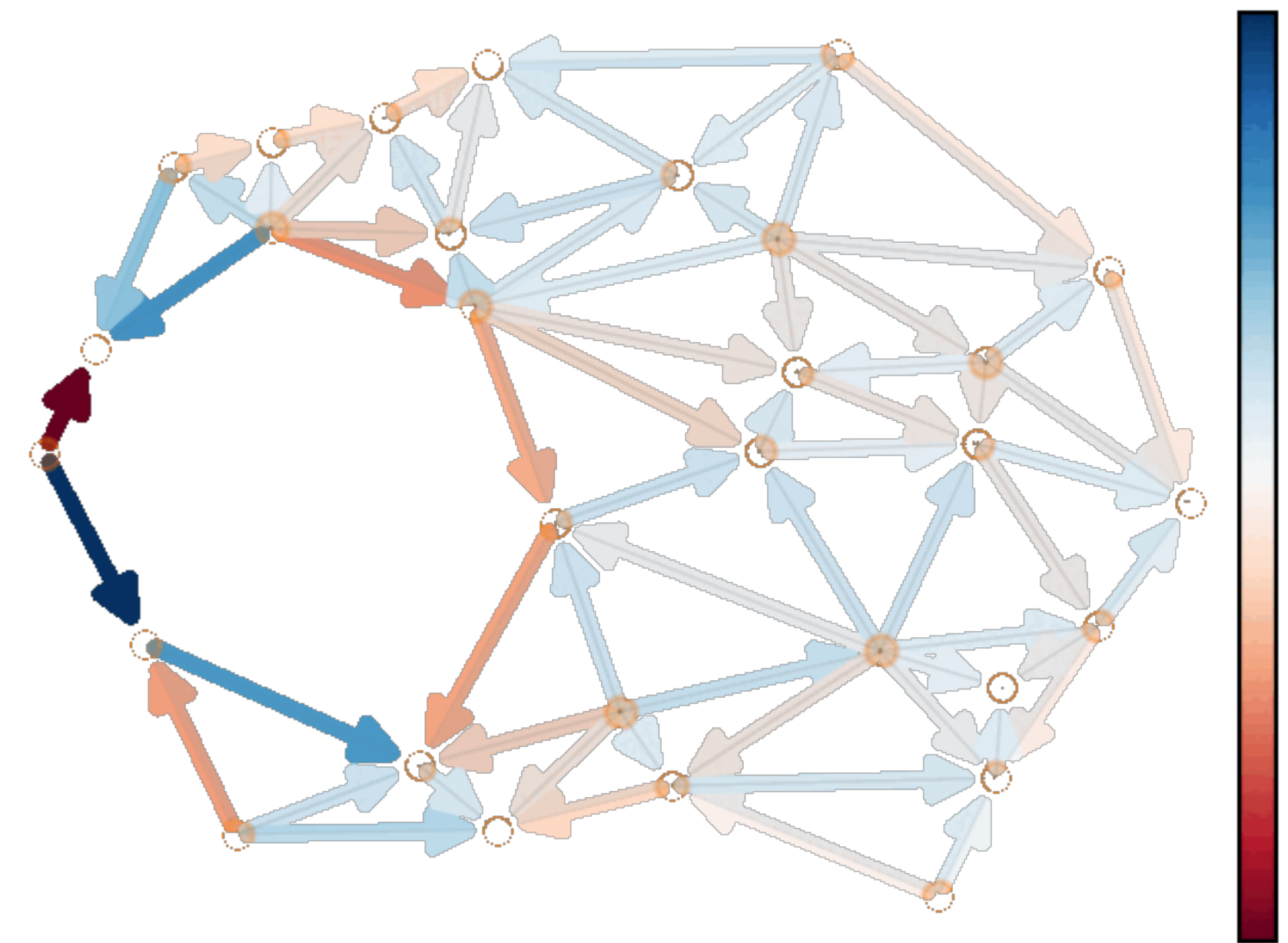
Paper
Code

Thank you!

Appendix
Diffusion kernels from diffusion processes

Diffusion on nodes

Diffusion on edges