

Project Timeline

Exposure-Normalized Bicycle Crash Risk Along Berlin Routes

November 2025 – January 2026

Phase 1: Project Setup Weeks 1–2 (10–23 November)

- Define project scope, research questions, and success criteria.
- Establish data standards and coordinate reference systems.
- Complete initial data quality assessment and prepare datasets for analysis.

Phase 2: Network Construction Weeks 3–4 (24 November – 7 December)

- Build street and bicycle network graph for Berlin.
- Develop crash-to-segment mapping methodology.
- Integrate traffic exposure data with network segments.

Phase 3: Risk Metric Development Weeks 5–6 (8–21 December)

- Develop exposure-normalized risk metrics at the segment level.
- Explore statistical approaches for handling data variability.
- Design route-level risk aggregation methodology.

Phase 4: Route Analysis System Week 7 (22–28 December)

- Implement route scoring and alternative recommendation prototype.
- Define convenience constraints (distance and travel time).
- Create visualization tools for network risk and route comparisons.

Holiday Break 29 December – 4 January

Well-deserved rest and reflection

Phase 5: Validation and Refinement Weeks 8–9 (5–18 January)

- Conduct validation analyses and assess model robustness.
- Perform sensitivity analyses for key assumptions.
- Evaluate trade-offs between risk reduction and route convenience.

Phase 6: Documentation Weeks 10–11 (19–30 January)

- Write the paper and produce final figures.
- Ensure reproducibility and finalize code documentation.
- Submit the project by **Friday, 30 January**.