



UNIVERSITY OF  
BIRMINGHAM

*UNECE - Global Forum for Road Traffic Safety (WP. 1)  
87th Session, Tuesday 26 September 2023  
Palais des Nations, Geneva*

# Pedestrian risk: walking alongside roads versus crossing roads

*Buwei He, PhD student of Civil Engineering  
University of Birmingham*



# Background



- Why Pedestrian Risk?
- Why the UK and developing countries (China)?
- Why the University of Birmingham?



# Problem and Needs

- Develop the pedestrian risk model.
- Behaviour Pattern.
- Data-Based.



# Innovation and Challenges

- Data collection: Multi-mode data set integration.
- Risk Model design.
- Focus on developing countries.



# Outputs

- Develop a safety model for pedestrians walking along a road and crossing road.
- Data specification for pedestrian safety modelling in developing countries.
- Examine the impact of pedestrian behaviour patterns on safety with the view to identify appropriate countermeasures.
- Improve road design options.



# Impact

- Social Impact.
- Policy Recommendations.
- Knowledge transfer.





UNIVERSITY OF  
BIRMINGHAM

# THANK YOU

*Buwei He, PhD student of Civil Engineering University  
of Birmingham*

