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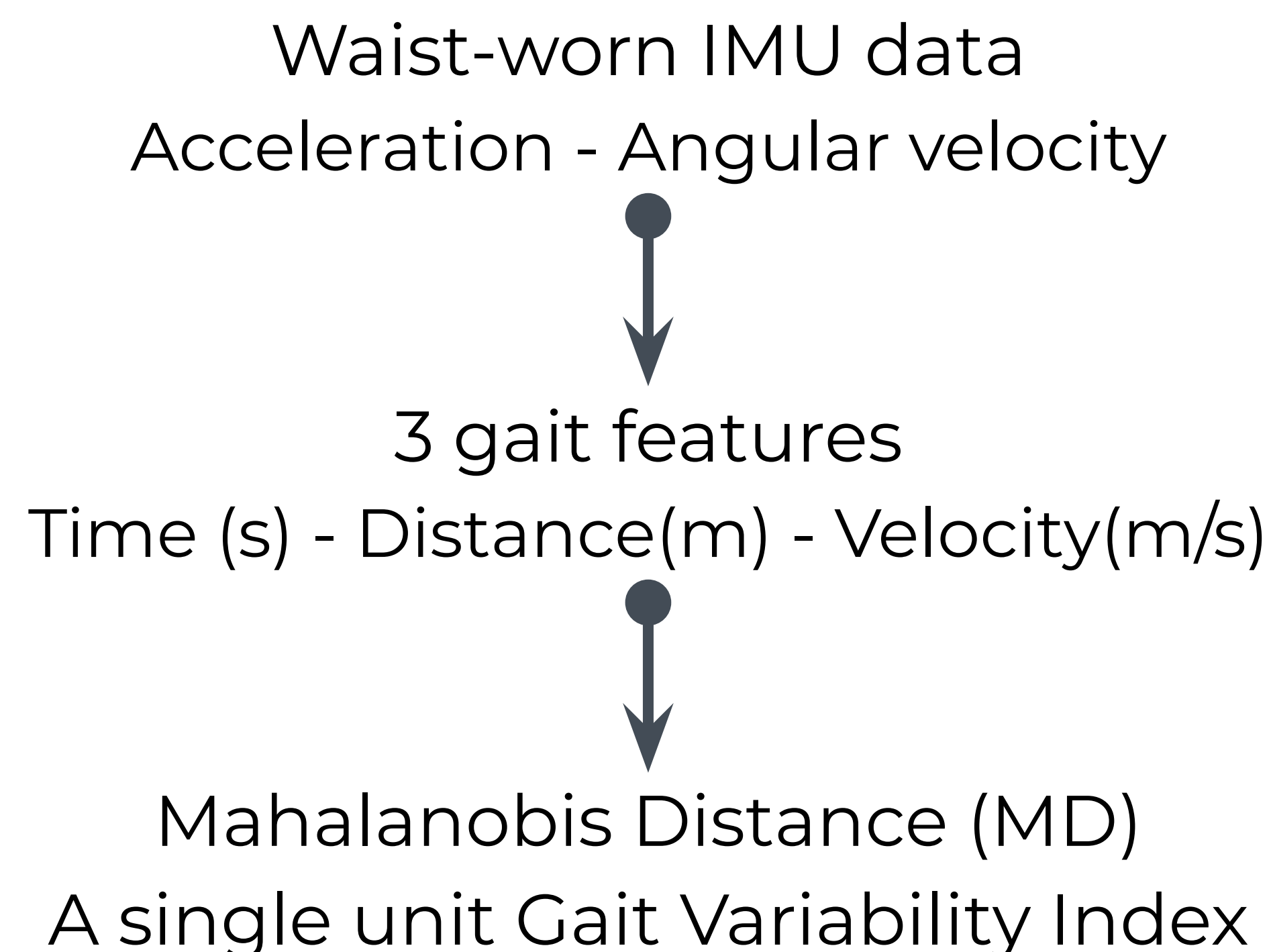
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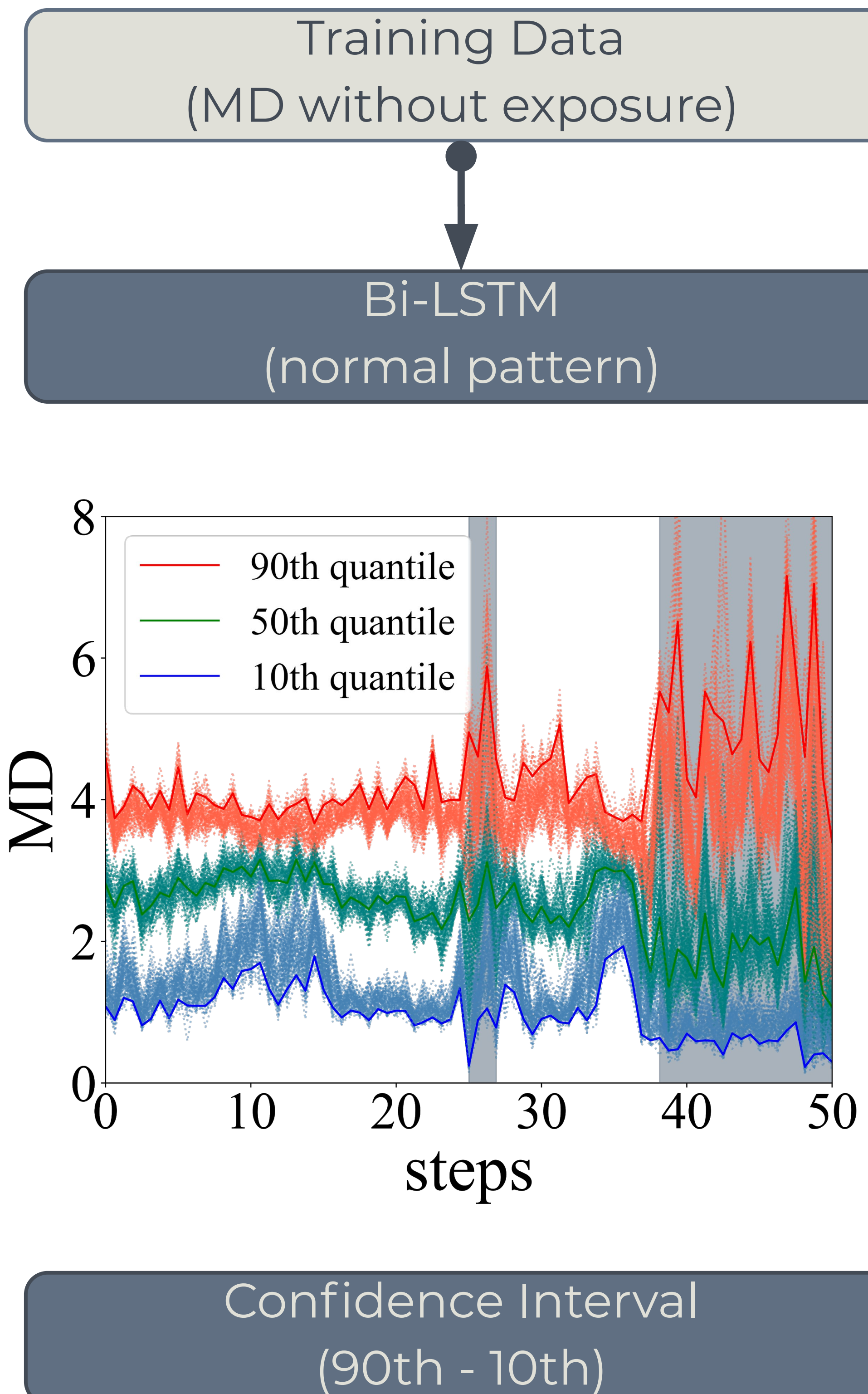
## STF hazards in construction

- Risky movement:  
jumping / carrying
- Inattentive walking:  
phone / chatting
- Risky environment:  
Stairs / Slope / Debris / Iron-wire

## Gait variability index



## Abnormal Gait Pattern Detection



## Evaluation / Validation

- Ave. 93.0% UAR for 16 workers:  
both with and without exposure
- 100% Acc. for inattentive walking:  
human factors

*Generalizability and robustness  
to a practical application*

## CONCLUSION

- MONITOR:  
exposure to STF hazards
- IDENTIFY:  
high-risk workers to STFs
- PREVENT:  
STFs in a construction site

## ACKNOWLEDGMENT

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