

School of Computer Science

Scientific Research & Literature

in Fulfilment of

SPEC9997

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Degree: TU060/1

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Declaration of Ownership: I declare that the attached work is entirely my own and that all sources have been acknowledged: 🗹

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Topic in data science

Tempalte

Topic: Examining cyclist behaviour in urban centres

Reference: Richardson, M. & Caulfield, B. (2015). Investigating traffic light violations by cyclists in Dublin City Centre. *Accident Analysis and Prevention, 84,* 65-73. doi: 10.1016/j.aap.2015.08.011

Aim: To examine red light running of cyclists in Dublin City.

Methods: An observational survey and an online questionnaire.

Conclusions: 61.9% of cyclists break the lights: 97.8% of cycle track users (pedestrian green phase); 18.6% of bicycle lane users (motorist phase). The most significant predictors were infrastructure type (cycle track) and cyclist gender (male).

Gaps in the Research: Need to account for difficulties people have in reporting incidents while cycling

Critique: The Dublin cycle network primarily consists of on-road cycle lanes. The surveys focussed on an even number of junctions with cycle lanes and cycle tracks. The overall rate of infringement is not fairly represented: in reality, it would be lower… (…)

Paper 1

**Topic:** Pattern recognition of brain biomarkers for dissociative identity disorder

**Reference:** Reinders, A. A. T. S., Marquand, A. F., Schlumpf, Y. R., Chalavi, S., Vissia, E. M., Nijenhuis, E. R. S., … Veltman, D. J. (2019). Aiding the diagnosis of dissociative identity disorder: pattern recognition study of brain biomarkers. *British Journal of Psychiatry*, *215*(3), 536–544. http://doi.org/10 (Antje A. T. S. Reinders\*, 2018).1192/bjp.2018.255

**Aim:** To investigate whether pattern recognition can help identifying biomarkers for DID diagnosis.

**Methods:** Brain images were compared using probabilistic pattern classifiers. Survey for healthy patients.

**Conclusions:**

**Gaps in the Research:**

**Critique:**

Paper 2

**Topic:**

**Reference:**

**Aim:**

**Methods:**

**Conclusions:**

**Gaps in the Research:**

**Critique:**

Paper 3

**Topic:**

**Reference:**

**Aim:**

**Methods:**

**Conclusions:**

**Gaps in the Research:**

**Critique:**

Paper 4

**Topic:**

**Reference:**

**Aim:**

**Methods:**

**Conclusions:**

**Gaps in the Research:**

**Critique:**

Paper 5

**Topic:**

**Reference:**

**Aim:**

**Methods:**

**Conclusions:**

**Gaps in the Research:**

**Critique:**

# References

Antje A. T. S. Reinders\*, A. F. (2018). Aiding the diagnosis of dissociative identity disorder: pattern recognition study of brain biomarkers. *British Journal of Psychiatry*.

# Bibliography

Antje A. T. S. Reinders\*, A. F. (2018). Aiding the diagnosis of dissociative identity disorder: pattern recognition study of brain biomarkers. *British Journal of Psychiatry*.