# Scientific Research & Literature

## Assignment 2 – Individual Annotated Bibliography about a Topic in your Specialism

1. Pick a **technical topic related to your Specialism** (Data Analytics, Advanced Software Development, Security & Forensics); PhD students should use their current topic
2. If you need, refine the topic with help from the “Research Topic Development Worksheet”, available on Brightspace
3. If you are struggling to find ideas, feel free to use one of the topics from
4. http://mscdissertations.lucalongo.eu/index.php/Research\_topic\_ideas
5. State your topic in the assignment submission
6. Gather **5 recent and relevant journal/conference articles** related to that topic, and review them.
7. If you need, use the “Science Article Check Sheet”, available on brightspace
8. Produce an annotated bibliography of the sources, with:
   1. Reference (APA6 style)
   2. Aim of the study
   3. Methods employed
   4. Conclusions of the study
   5. Gaps in the Research
   6. Your critique of the article, commenting on useful details for a future research project
9. Use **paraphrased** sentences. Do not copy and paste directly from the articles. See a partial example below, with the paper from the first lecture:

**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… (…)**

9 Please observe an overall **maximum of 1500 words** in the assignment.

**11 Submit a .docx file** via Brightspace and email to john.gilligan@tudublin.ie by 23:59 on 23/11/2020

12 Late submissions are not accepted.

This assignment is worth 30% of module marks

1. If any aspect of this assignment is not clear to you, please contact the lecturer.

### Marking Scheme:

* References & Quality of the sources (judged by the lecturer, not stated by you): 5x1 marks
* Aim: 5x0.5 marks
* Methods: 5x1 marks
* Conclusions: 5x 0.5 marks
* Gaps 5 X 1 marks for overall quality of analysis with respect of emerging gaps
* Critique: 5x2 marks