

Danique Fintelman

Doctoral Researcher

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About

PhD Title: Cycling aerodynamics

Supervisor: Dr. François-Xavier Li, Prof. Mark Sterling and Dr. Hassan Hemida

After obtaining her BSc in Mechanical Engineering at the Delft University of Technology (The Netherlands), Danique started a master Biomechanical Engineering in the same institution. During her master degree she did an internship at the University of California, Davis (USA) studying bicycle handling. For her final graduation project she developed a multibody dynamics speed skater model. Danique started her PhD on cycling aerodynamics in February 2012 at the University of Birmingham.

Qualifications

- BSc Mechanical Engineering, Delft University of Technology, The Netherlands
- MSc Biomechanical Engineering (hons), Delft University of Technology, The Netherlands

Publications

Publications

Schwab, A.L., Fintelman, D.M., den Braver, O. (2013) Speed skating modeling, *Multibody Dynamics, Computational Methods in Applied Sciences* 28, pp. 1-23.

Fintelman, D.M., den Braver, O., Schwab, A.L. (2011) A simple 2-dimensional model of speed skating which mimics observed forces and motions, *Multibody Dynamics, ECCOMAS Thematic Conference*, Brugge, Belgium.

Peterson, D.L., Moore, J.K., Fintelman, D., Hubbard, M. (2010) Low-power, modular, wireless dynamic measurement of bicycle motion, *Procedia Engineering* 2 (2), pp. 2949-2954.

Conferences

Fintelman, D.M., Sterling, M., Hemida, H., Li, F-X. (2013) Cycling time trial position: torso angle affects metabolic and physiological variables, 18th Annual Congress of the ECSS, Barcelona, Spain.

Fintelman, D.M., Sterling, M., Hemida, H., Li, F-X. (2013) Optimal cycling time trial position models, 18th Annual Congress of the ECSS, Barcelona, Spain.

Fintelman, D.M., Hemida, H., Sterling, M., Li, F-X. (2013) Numerical investigation of the flow around a motorbike subjected to crosswinds, *Mid-Plus Engineering Showcase*, Birmingham, UK.