

## LISTE DE PUBLICATIONS (2014 - 2018)

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Discipline de recherche : Mécanique des fluides

### Articles à comité de lecture

[7] **D. Barros**, B. Hiltbrand & E. K. Longmire, Measurement of the translation and rotation of a sphere in fluid flow. *Experiments in Fluids*, 59:104, 2018

[6] **D. Barros**, J. Borée, O. Cadot, A. Spohn & B. R. Noack, Forcing symmetry exchanges and flow reversals in turbulent wakes. *Journal of Fluid Mechanics*, 829, R1, 2017

[5] R. Li, **D. Barros**, J. Borée, O. Cadot, B. R. Noack & L. Cordier, Feedback control of bimodal wake dynamics. *Experiments in Fluids*, 57 (10),158, 2016

[4] **D. Barros**, J. Borée, B. R. Noack, A. Spohn & T. Ruiz, Bluff body drag manipulation using pulsed jets and Coanda effect. *Journal of Fluid Mechanics*, 805, 429-455, 2016

[3] **D. Barros**, J. Borée, B. R. Noack & A. Spohn, Resonances in the forced turbulent wake past a 3D blunt body. *Physics of Fluids*, 28(6), 065104, 2016

[2] **D. Barros**, T. Ruiz, J. Borée & B. R. Noack, Control of a three-dimensional blunt body wake using low and high frequency pulsed jets. *International Journal Flow Control*, 6(1), 61-74, 2014

[1] J. Östh, B. R. Noack, S. Krajnovic, **D. Barros** & J. Borée, On the need for a nonlinear subscale turbulence term in POD models as exemplified for a high-Reynolds-number ow over an Ahmed body. *Journal of Fluid Mechanics*, 747, 518-544, 2014

### Communications en congrès et présentations invitées

[15] Y. H. Tee, **D. Barros** & E. K. Longmire, Investigation of sphere dynamics within a turbulent boundary layer. Bulletin of the American Physical Society, APS DFD Meeting, Georgia, Atlanta, USA, 19-22, November 2018

[14] Y. H. Tee, **D. Barros** & E. K. Longmire, Translation and rotation of a spherical particle in a turbulent boundary layer. 19th International Symposium on Applications of Laser and Imaging Techniques to Fluid Mechanics, Lisbon, Portugal, 16-19 July 2018

[13] **D. Barros**, Y. H. Tee, N. Morse, B. Hiltbrand & E. K. Longmire, Investigation of particle lift-off in a turbulent boundary layer. Bulletin of the American Physical Society, APS DFD Meeting, Denver, Colorado, USA, 19-22 November 2017

[12] L. Altenburg, **D. Barros** & E. K. Longmire, Sedimentation of a sphere through a liquid-liquid interface. Bulletin of the American Physical Society, APS DFD Meeting, Denver, Colorado, USA, 19-22 November 2017

- [11] **D. Barros**, J. Borée, B. R. Noack & A. Spohn, Perturbing shear layers in turbulent wakes: with applications to wake symmetry control. Présentation invitée, Physics and Control of Turbulent Shear Flows 2017 (City College), New York, USA, 10-11 July 2017
- [10] **D. Barros**, J. Borée, B. R. Noack & A. Spohn, Perturbing shear layers in turbulent wakes. 10<sup>th</sup> International Symposium on Turbulent and Shear Flow Phenomena (TSFP), Chicago, USA, 6-9 July 2017
- [9] **D. Barros**, Manipulation of 3D Turbulent Wakes: Shear Layer Forcing and Drag Reduction. Ercoftac da Vinci Award (KTH), Présentation invitée, Stockholm, Sweden, 13th October, 2016
- [8] **D. Barros**, J. Borée, B. R. Noack, A. Spohn, J. Östh & S. Krajnovic, Asymmetries and wake equilibrium past a square-back bluff body. Aerovehicles 2 International Conference in Aerodynamics of Road Vehicles and Trains, Göteborg, Sweden, 21-23 June 2016
- [7] **D. Barros**, J. Borée, B. R. Noack & A. Spohn, Drag control of blunt vehicles using fluidic actuation. Aerovehicles 2 International Conference in Aerodynamics of Road Vehicles and Trains, Göteborg, Sweden, 21-23 June 2016
- [6] **D. Barros**, J. Borée, B. R. Noack, & A. Spohn and T. Ruiz, Drag reduction of a blunt body by unsteady shear layer forcing and Coanda blowing. Congrès Français de Mécanique, Lyon, France, 24-28 August 2015
- [5] J. Borée, **D. Barros**, B. R. Noack, A. Spohn & T. Ruiz, Drag reduction of a blunt body by unsteady Coanda blowing and shear layer forcing. Whither Turbulence and Big Data in the 21st Century. Understanding and Harnessing Turbulence, Cargèse, France, 20-24 April 2015
- [4] **D. Barros**, J. Borée, B. R. Noack, A. Spohn & T. Ruiz, Drag control of a three-dimensional blunt body by periodic pulsed jets. GDR 2502 - Contrôle des Décollements, Orsay, France, 17-18 November 2014
- [3] **D. Barros**, J. Östh, J. Borée, B. R. Noack, T. Ruiz & S. Krajnovic, Flow around a three-dimensional blunt body: topology, dynamics and drag. Aerovehicles 1 International Conference in Aerodynamics of Road Vehicles and Trains, Bordeaux, France, 23-25 June 2014
- [2] **D. Barros**, J. Borée, B. R. Noack & T. Ruiz, Control of a three-dimensional blunt body wake using pulsed jets. Aerovehicles 1 International Conference in Aerodynamics of Road Vehicles and Trains, Bordeaux, France, 23-25 June 2014
- [1] **D. Barros**, J. Borée, B. R. Noack, L. Cordier & T. Ruiz, High-frequency forcing for drag reduction of a three-dimensional blunt body. Ercoftac Sig-44 Workshop on Turbulent Flows: Fundamentals and Applications, Poitiers, France, 15-16 April 2013