

**CRUNCH Seminars at Brown, Division of Applied Mathematics**

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**An efficient deep learning technique for the Navier-Stokes equations: Application to unsteady wake flow dynamics**

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In this paper, the authors address the problem of predicting the unsteady fluid forces for different bluff body shapes at low Reynolds number, and trained a Convolutional Neural Network to approximate the mapping between the bluff body shape and the fluid force.