

Faculty Introduction

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Western University

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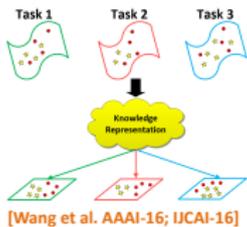
Experiences

- ▶ Assistant professor at [Western University](#) (2019 –).
- ▶ Postdoctoral scholar in computer science at the [University of Pennsylvania](#) (2018 – 2019).
- ▶ Postdoctoral scholar in neuroscience at [Princeton University](#) (2016 – 2018).
- ▶ Ph.D. in computer science from [McGill University](#) (2011 – 2016).

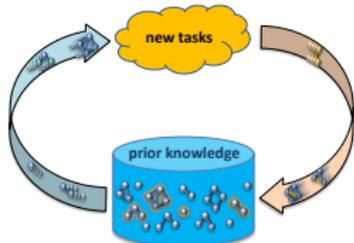
All aspects of **Machine Learning**: theory, algorithms, and applications.

- ▶ Improve learning performances via **knowledge transfer**.
 - Hello ⇒ Bonjour
- ▶ **Transfer/multitask/lifelong/meta learning**.
- ▶ Neuroscience, biomedical engineering, smart grids, financial optimization...

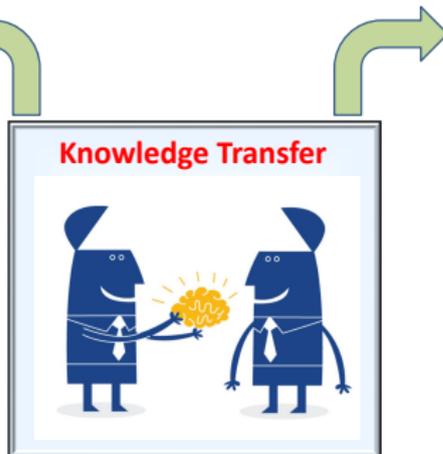
Knowledge Representation



Knowledge Reuse



[Wu et al. ECML-17; IEEE Trans. on Smart Grids, 2019]

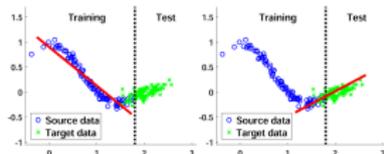


Knowledge Sharing

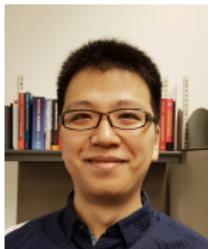


[Wang et al. AISTATS-19]
[Wang et al. JNeurosci, 2019]

Instance Transfer



[Wang et al. NeurIPS-19]
[Shui et al. IJCAI-19]



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