

# Existing Research Collaborations: Donders/Brain & Mind

**Dr. Brian Corneil, BMI  
Director, Graduate Program in  
Neuroscience**

# Trainee exchange: A brief summary

Pre-meeting prior to Society for Neuroscience meeting, October 2015

BMI visit to Nijmegen, June 2016

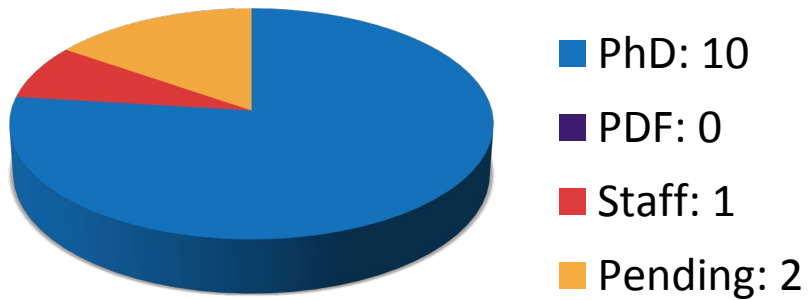
To date, 4 calls for proposals on each side

Travel from most recent visit delayed due to COVID

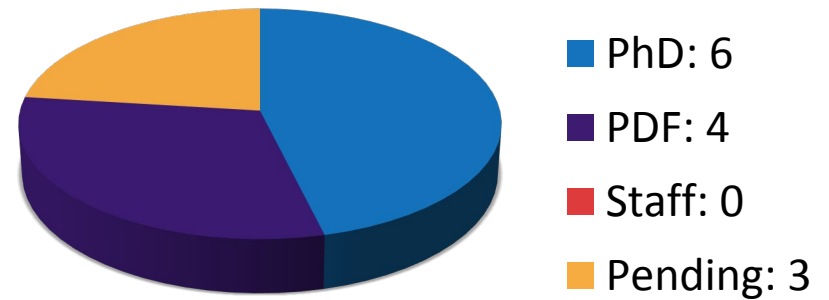


# Break-down of trainee travel

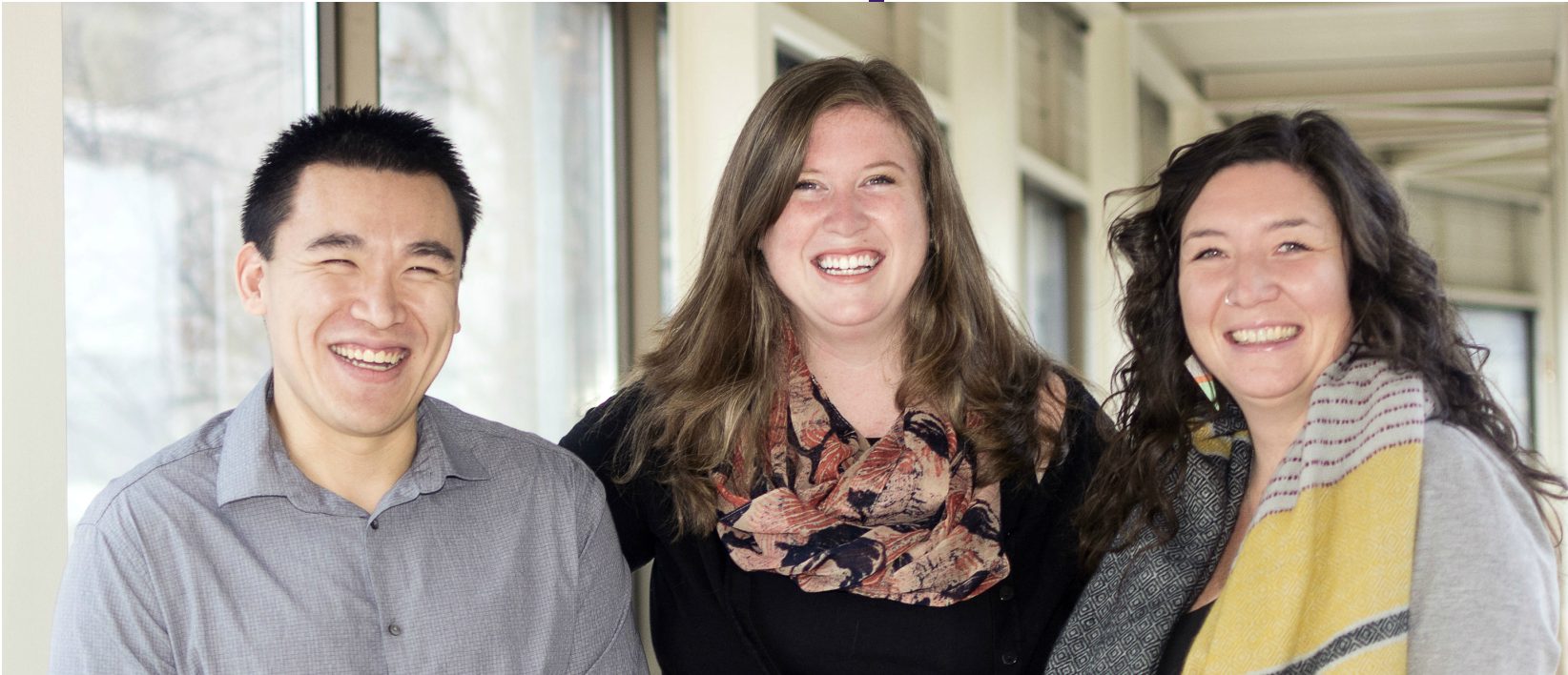
## Donders → BMI



## BMI → Donders



# Exchange outcome examples



Chao Gu

Kathryn Manning

Dr. Molly Henry

# Kathryn Manning

PhD Student with Dr. Ravi Menon

DI Host: Dr. Christian Beckmann

Project: Imaging the brain's changes following concussions



# Outcome of Kathryn Manning's visit

NeuroImage: Clinical 21 (2019) 101627

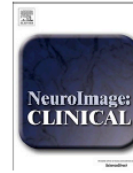


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Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

NeuroImage: Clinical

journal homepage: [www.elsevier.com/locate/ynicl](http://www.elsevier.com/locate/ynicl)



Linked MRI signatures of the brain's acute and persistent response to concussion in female varsity rugby players

Kathryn Y. Manning<sup>a,b</sup>, Alberto Llera<sup>c</sup>, Gregory A. Dekaban<sup>d,e</sup>, Robert Bartha<sup>a,b</sup>, Christy Barreira<sup>d</sup>, Arthur Brown<sup>d,f</sup>, Lisa Fischer<sup>g</sup>, Tatiana Jevremovic<sup>g</sup>, Kevin Blackney<sup>d,e</sup>, Timothy J. Doherty<sup>h</sup>, Douglas D. Fraser<sup>i</sup>, Jeff Holmes<sup>j</sup>, Christian F. Beckmann<sup>k,l</sup>, Ravi S. Menon<sup>a,b,\*</sup>

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<sup>j</sup> Occupational Therapy, Western University, London, ON, Canada

<sup>k</sup> Cognitive Neuroscience, Radboud University Medical Centre, Nijmegen, Netherlands

<sup>l</sup> Centre for Functional MRI of the Brain (FMRIB), Oxford University, Oxford, United Kingdom



# Chao Gu

PhD Student with Dr. Brian Corneil

DI host: Dr. Pieter Medendorp

Project: Investigating rapid visuomotor reflexes in young healthy subjects



# Outcome of Chao Gu's visit

Lead to an ongoing collaboration with Dr. Vivian Weerdesteyn, who visited the BMI in Oct 2019

Ongoing collaboration investigating these rapid visuomotor reflexes in Parkinson's Disease; successful DCMN Junior Researcher application in June 2020





# Dr. Molly Henry

PDF, Dr Jessica Grahn

DI Host: Dr. Floris de Lange

Project title: MEG-based analysis  
of synchronization of brain rhythms  
and environmental rhythms

Visited twice, from 2016 and 2017  
competitions



# Outcome of Molly Henry's visits

“Truly important and permanent impacts on my life as a scientist”

Leads the Max Planck Research Group “Neural and Environmental Rhythms” in Frankfurt

Received invaluable coaching and guidance toward a successful ERC grant from Floris de Lange, Peter Hagoort, and others at the Radboud



# Factors contributing to success

Outstanding critical mass of expertise in cognitive neuroscience, and neuroscience more broadly

Complementary, but not overlapping, expertise and methods. Many collaborations are continuing

Trainee-centered perspective: Invaluable development of scientific perspectives and international networks

# Thank you!

- International offices and Western and the Radboud
- Leadership at the BMI and Donders
- The administrators on both side
- Major thank you to Erasmus+ programme, who provided the majority of the funding for these exchanges



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