

Functional
MRI: Part 1 of
2

Dr. Alexander
Mark Weber

Housekeeping

Freesurfer and
DTI Overview

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Tutorial

MRI Physics:
DTI

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Section

Understanding and Interpreting Functional Magnetic Resonance Imaging

Precision Health Boot Camp

Alexander Mark Weber

Department of Pediatrics, Division of Neurology
University of British Columbia

12:00 - 2:00 PM
August 9th, 2022

Preamble

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ORIGINAL RESEARCH
published: 06 August 2018
doi: 10.3389/fneur.2018.00575



Pathological Insights From Quantitative Susceptibility Mapping and Diffusion Tensor Imaging in Ice Hockey Players Pre and Post-concussion

Alexander M. Weber^{1,2*}, Anna Pukropski^{3,7}, Christian Kames^{2,4}, Michael Jarrett^{1,2}, Shiroy Dadachanji⁵, Jack Taunton⁶, David K. B. Li^{2,6,7} and Alexander Rauscher^{1,2,8}

Received: 8 April 2019 | Revised: 27 September 2019 | Accepted: 20 October 2019
DOI: 10.3389/fneur.2018.00575

RESEARCH ARTICLE

NMR
IN BIOMEDICINE WILEY



Myelin water imaging and R_2^* mapping in neonates: Investigating R_2^* dependence on myelin and fibre orientation in whole brain white matter

Alexander Mark Weber^{1,2}  | Yuting Zhang^{3,4,5,6} | Christian Kames^{2,7} |
Alexander Rauscher^{1,2,7,8} 

Overview

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Land Acknowledgement

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I would like to acknowledge that we are gathered today on the traditional, ancestral, and unceded territory of the Musqueam people.



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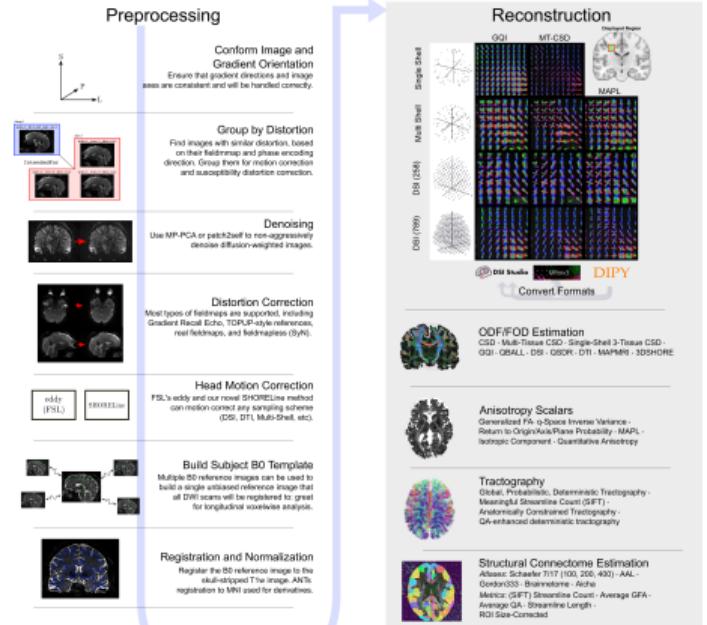
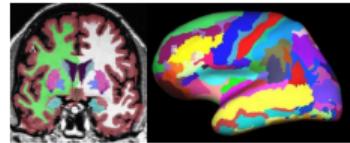
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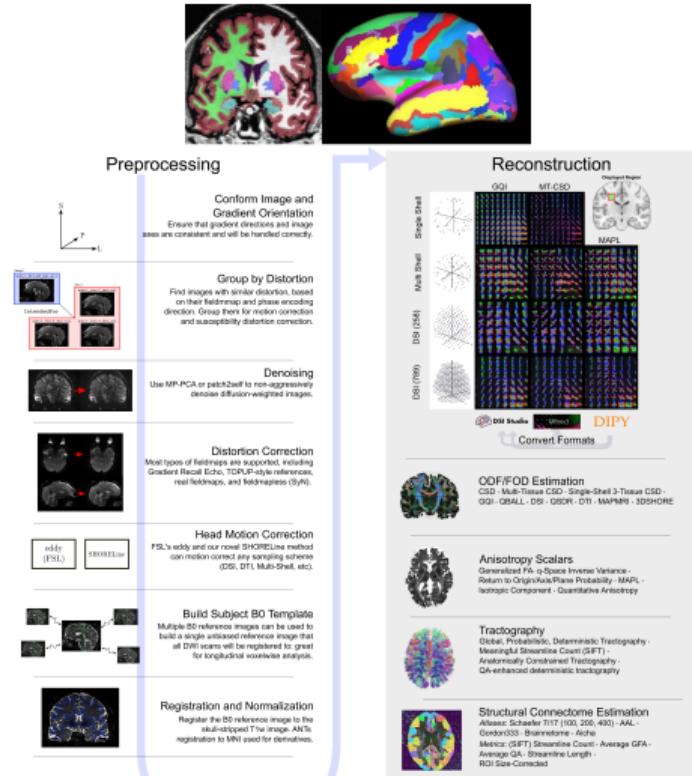
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Tutorial:

■ Freesurfer

Lecture:

■ DTI Physics

Tutorial:

■ DTI preprocessing (two ways)

Blocks of Highlighted Text

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In this slide, some important text will be **highlighted** because it's important.
Please, don't abuse it.

Block

Sample text

Alertblock

Sample text in red box

Examples

Sample text in green box. The title of the block is “Examples”.

Multiple Columns

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Heading

- 1 Statement
- 2 Explanation
- 3 Example

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer lectus nisl, ultricies in feugiat rutrum, porttitor sit amet augue. Aliquam ut tortor mauris. Sed volutpat ante purus, quis accumsan dolor.

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Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table: Table caption

Theorem

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Theorem (Mass–energy equivalence)

$$E = mc^2$$

Figure

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Citation

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An example of the \cite command to cite within the presentation:

This statement requires citation [Smith, 2012].

References

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John Smith (2012)

Title of the publication

Journal Name 12(3), 45 – 678.

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The End