
PUBLICATIONS - Peer reviewed journal articles

- Crawford RJ, Volken T, **Ni Mhuiris A**, Elliott JM, Bow C, Samartzis D. Geography of lumbar paravertebral muscle fatty infiltration: distribution patterns relating to demographics, pain, and disability in Asians. *European Spine Journal*, 2017.
- Crawford RJ, Gizzi L, **Ni Mhuiris Á**, Falla D: Are regions of the lumbar multifidus differentially activated during walking at varied speed and inclination? *Journal of Electromyography and Kinesiology* 2016, 30: 177- 183.
- **Ni Mhuiris Á**, Volken T, Elliott JM, Hoggarth M, Samartzis D, Crawford RJ: [Reliability of quantifying the spatial distribution of fatty infiltration in lumbar paravertebral muscles using a new segmentation method for T1-weighted MRI.](#) *BMC Musculoskeletal Disorders* 2016, 17(1):234.

PUBLICATIONS - Conference podium presentations (competitive selection)

- Crawford RJ, Gizzi L, **Ni Mhuiris Á**, Dieterich A, Falla D. Thoracolumbar erector spinae and trunk obliques muscle activity during walking at various speeds and inclinations: differences between young and older asymptomatic adults. *Eurospine* 2017, Dublin, Ireland; 12. October 2017.
- Crawford RJ, Gizzi L, **Ni Mhuiris Á**, Dieterich A, Falla D. Does the activation of deep and superficial lumbar multifidus differ during walking at different speeds and inclinations between young and older adults? *International Society for Study of the Lumbar Spine (ISSLS)* 2017, Athens, Greece; presented on 1 June 2017.
- Crawford RJ, **Ni Mhuiris Á**, Cheung JP-Y, Bow C, Pang H, Elliott JM, Karppinen J, Melloh M, Luk K, Cheung KM, Samartzis D. Lumbar paravertebral fatty infiltration: Spatial distribution and association with disc degeneration in an Asian population. *SpineWeek* 2016; AOSpine, Mai 2016 Singapore, Singapore.
- **Ni Mhuiris Á**, Volken T, Elliott JM, Hoggarth M, Samartzis D, Crawford RJ. Quantifying the spatial distribution of fat content in lumbar paravertebral muscles on T1-weighted MRI: A novel method and reliability analysis. *SpineWeek* 2016; North American Spine Society, May 2016 Singapore, Singapore.

PUBLICATIONS - Conference posters 2016+

- Crawford RJ, Volken T, **Ni Mhuiris Á**, Bow C, Elliott JM, Melloh M, Samartzis D. Lumbar paravertebral muscle fatty infiltration: Relationship of distribution patterns to demographics, disability, and pain. *International Society for Study of the Lumbar Spine (ISSLS)* 2017, Athens, Greece; special poster 2 June 2017.



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- Crawford RJ, Gizzi L, **Ni Mhuiris Á**, Falla D. Are deep and superficial lumbar multifidus differentially activated during walking at different speeds and inclination? International Federation Orthopaedic Manipulative Physical Therapy (IFOMPT) 6 July 2016, Glasgow, Great Britain.
- Crawford RJ, Gizzi L, **Ni Mhuiris Á**, Falla D. Are deep and superficial lumbar multifidus differentially activated during walking at different speeds and inclination? SpineWeek 2016; International Society for Study of the Lumbar Spine (ISSLS), Mai 2016 Singapore, Singapore.

PUBLIKATIONEN (in wissenschaftlich anerkannten Fachzeitschriften)

- Crawford RJ, Volken T, **Ni Mhuiris A**, Elliott JM, Bow C, Samartzis D. Geography of lumbar paravertebral muscle fatty infiltration: distribution patterns relating to demographics, pain, and disability in Asians. *European Spine Journal*, 2017.
- Crawford RJ, Gizzi L, **Ni Mhuiris Á**, Falla D: Are regions of the lumbar multifidus differentially activated during walking at varied speed and inclination? *Journal of Electromyography and Kinesiology* 2016, 30: 177- 183.
- **Ni Mhuiris Á**, Volken T, Elliott JM, Hoggarth M, Samartzis D, Crawford RJ: [Reliability of quantifying the spatial distribution of fatty infiltration in lumbar paravertebral muscles using a new segmentation method for T1-weighted MRI.](#) *BMC Musculoskeletal Disorders* 2016, 17(1):234.

PUBLIKATIONEN - Podiumspräsentationen im Rahmen von Konferenzen (kompetitives Auswahlverfahren)

- Crawford RJ, Gizzi L, **Ni Mhuiris Á**, Dieterich A, Falla D. Thoracolumbar erector spinae and trunk obliques muscle activity during walking at various speeds and inclinations: differences between young and older asymptomatic adults. *Eurospine* 2017, Dublin, Irland; 12. Oktober 2017.
- Crawford RJ, Gizzi L, **Ni Mhuiris Á**, Dieterich A, Falla D. Does the activation of deep and superficial lumbar multifidus differ during walking at different speeds and inclinations between young and older adults? *International Society for Study of the Lumbar Spine (ISSLS)* 2017, Athen, Griechenland; präsentiert am 1. Juni 2017.
- Crawford RJ, **Ni Mhuiris Á**, Cheung JP-Y, Bow C, Pang H, Elliott JM, Karppinen J, Melloh M, Luk K, Cheung KM, Samartzis D. Lumbar paravertebral fatty infiltration: Spatial distribution and association with disc degeneration in an Asian population. *SpineWeek* 2016; AOSpine, Mai 2016 Singapur, Singapur
- **Ni Mhuiris Á**, Volken T, Elliott JM, Hoggarth M, Samartzis D, Crawford RJ. Quantifying the spatial distribution of fat content in lumbar paravertebral muscles on T1-weighted MRI: A novel method and reliability analysis. *SpineWeek* 2016; North American Spine Society, Mai 2016 Singapur, Singapur.

PUBLIKATIONEN (Poster-Präsentationen bei Konferenzen 2016)

- Crawford RJ, Volken T, **Ni Mhuiris Á**, Bow C, Elliott JM, Melloh M, Samartzis D. Lumbar paravertebral muscle fatty infiltration: Relationship of distribution patterns to demographics, disability, and pain. *International Society for Study of the Lumbar Spine (ISSLS)* 2017, Athen, Griechenland; Spezialposter 2. Juni 2017.



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- Crawford RJ, Gizzi L, **Ni Mhuiris Á**, Falla D. Are deep and superficial lumbar multifidus differentially activated during walking at different speeds and inclination? International Federation Orthopaedic Manipulative Physical Therapy (IFOMPT) 6. Juli 2016, Glasgow, Grossbritannien.
- Crawford RJ, Gizzi L, **Ni Mhuiris Á**, Falla D. Are deep and superficial lumbar multifidus differentially activated during walking at different speeds and inclination? SpineWeek 2016; International Society for Study of the Lumbar Spine (ISSLS), Mai 2016 Singapur, Singapur.