

## *Bakkarbeit: Spowi-/Lehramt*

### **Spowi**

- Investigation of the temporal stability of performance indicators in football **(Baca/Bischofberger)**
- Investigation of the dependence of performance indicators on the league in football **(Baca/Bischofberger)**
- Lit. Review: Key coaching skills and attributes: important abilities to the development of grassroots in football and basketball **(Exel/Schnack/Wallnöfer/Chetouani)**
- Lit. Review: The development of coaches' social and emotional competencies as leaders for grassroots in football and basketball **(Exel/Schnack/Wallnöfer/Chetouani)**
- Lit. Review: Performance tests of physical capacity determinants (strength, endurance, speed & agility, mobility), qualitative movement analysis, and tactical assessments common to grassroots football and basketball **(Exel/Schnack/Wallnöfer/Chetouani)**
- Lit. Review: Interplay of training methods and techniques for the development of game aspects in grassroots football and basketball: differential learning/small sided games approach **(Exel/Schnack/Wallnöfer/Chetouani)**
- Reliability of a protocol for measuring critical force in climbers **(Exel)**
- Computer vision applications for kinematics in climbing **(Exel/Schnack)**
- Gait retraining to reduce joint loads (review) **(Kainz)**
- Use of biomechanical measures to personalize resistance training **(Gonçalves)**
- Effects of bone geometry on muscle and joint forces during sprinting **(Gonçalves)**

### **Lehramt**

- Key coaching skills and attributes: important abilities to the development of grassroots in football and basketball **(Exel/Schnack/Wallnöfer/Chetouani)**
- Teaching social and emotional skill to young talented athletes in grassroots football and basketball **(Exel/Schnack/Wallnöfer/Chetouani)**
- Use of biomechanical measures to personalize resistance training (review) **(Gonçalves)**
- Effects of gait retraining in children / elderly (review) **(Gonçalves – 2 students)**
- Effects of bone deformities on children's quality of life (review) **(Gonçalves – 2 students)**
- Effectiveness of field-based devices to monitor training load (review) **(Gonçalves – 2 students)**
- Gait patterns in children with neurological disorders (review) **(Gonçalves – 2 students)**