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| BIOGRAPHICAL SKETCHProvide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.Follow this format for each person.  **DO NOT EXCEED FOUR PAGES.** |
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| NAMED. David Ebaugh | POSITION TITLEClinical ProfessorHealth Sciences DepartmentPhysical Therapy & Rehabilitation Sciences Dept |
| eRA COMMONS USER NAME (credential, e.g., agency login) |
| EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)* |
| INSTITUTION AND LOCATION | DEGREE*(if applicable)* | MM/YY | FIELD OF STUDY |
| Temple University, Philadelphia, PA | BS | 05/89 | Physical Therapy |
| MCP Hahnemann University, Philadelphia, PA | MS | 05/96 | Orthopaedic Physical Therapy |
| Drexel University, Philadelphia, PA | PhD | 12/04 | Rehabilitation Sciences |

1. **Personal Statement**

The goal of my research is to better understand underlying neuromuscular and musculoskeletal mechanisms that contribute to the development of symptomatic rotator cuff disease across different populations including survivors of breast cancer, overhead athletes, and manual wheelchair users. It is my hope that improved knowledge of underlying mechanisms will lead to improvements in examination procedures as well as intervention and prevention strategies.

1. **Positions and Honors**

**Positions and Employment**

1989-1990 Physical Therapist, Thomas Jefferson Hospital, Philadelphia, PA

1990-1992 Physical Therapist, Center For Rehabilitation and Fitness, Richboro, PA

1992-1994 Physical Therapist, Abington Sports Medicine, Abington, PA

1994-1996 Physical Therapist, US Regional Occupational & Sports Medicine, Huntingdon Valley, PA

1996-2002 Assistant Professor, MCP Hahnemann University, Department of Physical Therapy, Philadelphia, PA

2002-2008 Clinical Assistant Professor, Drexel University, Department of Physical Therapy and Rehabilitation Sciences, Philadelphia, PA

2008-2012 Assistant Professor, Drexel University, Department of Physical Therapy and Rehabilitation Sciences, Philadelphia, PA

2012 - 2014 Clinical Associate Professor, Drexel University, Health Sciences Department, Physical Therapy and Rehabilitation Sciences Department, Philadelphia, PA

2013 - Director, Human Anatomy, College of Nursing and Health Professions, Drexel University, Philadelphia, PA

2014 - Clinical Professor, Drexel University, Health Sciences Department, Physical Therapy and Rehabilitation Sciences Department, Philadelphia, PA

**Other Experience and Professional Memberships**

1987- Member, American Physical Therapy Association

1992- Member, American Physical Therapy Association, Orthopaedic Section

1992- Member, American Physical Therapy Association, Research Section

2010- Member, American Physical Therapy Association, Oncology Section

2009- Member, American Society of Biomechanics

2009- Member, International Society of Biomechanics, International Shoulder Group

2003- Manuscript reviewer *Journal of Orthopaedic and Sports Physical Therapy*

2004- Manuscript reviewer *Physiotherapy Theory and Practice*

2006- Manuscript reviewer *Physical Therapy*

2008- Manuscript reviewer *Journal of Hand Therapy*

2009- International Editorial Review Board Member *Journal of Orthopaedic and Sports Physical Therapy*

2001-11 Member, American Society of Shoulder and Elbow Therapists

2008-10 Member, American Physical Therapy Association, Research Committee, Orthopaedic Section

 2005-08 Research Chair, American Society of Shoulder and Elbow Therapists

**Honors**

2001 Pennsylvania Physical Therapy Research Award – Development of a Model to Classify Scapular Motion: A Pilot Study

2007 Best Basic Science Paper Award: *Defining the functional range of motion of the shoulder.* 10th International Congress of Shoulder and Elbow Surgery meeting, Brazil.

1. **Selected Peer-reviewed Publications**

**Most relevant to the current application**

1. Fleming, J, Seitz, A, **Ebaugh, D**. Exercise Protocol for the Treatment of Rotator Cuff Impingement Syndrome: Results of a Systematic Literature Review and Integration into Practice. *Journal of Athletic Training, 45(5): 483-485, 2010.*
2. **Ebaugh, D.,** Spinelli, B, Schmitz, K.H. Shoulder impairments and their association with rotator cuff disease in breast cancer survivors. *Medical Hypotheses*, 77(4):481-7, 2011.
3. Namdari, S, Gyagnik, G, **Ebaugh, D,** Nagda, S, Ramsey, M, Williams, G, Mehta, S. Defining functional shoulder range of motion for activities of daily living. *Journal of Shoulder and Elbow Surgery,* 21(9): 1177-83, 2012.
4. Spinelli, B Wattananon, P, Talaty, M, Silfies, S, **Ebaugb, D**. Using kinematics and a dynamical systems approach to enhance understanding of clinically observed aberrant movement patterns. *Manual Therapy,* 20: 221-26, 2015.
5. Silfies, S, **Ebaugh, D,** Pontillo, M, Butowicz, C. Critical review of core stability on upper extremity athletic injury and performance. *Brazilian Journal of Physical Therapy,* 19(5):360-368,.
6. 2015Butowicz, C, **Ebaugh, D,** Noehre, B, Silfies, S. Validation of two clinical measures of core stability. *International Journal of Sports Physical Therapy,* 11(1): 15-23, 2016.

**Additional recent publications of importance to the field (in chronological order)**

1. **Ebaugh, DD**, McClure, PW, Karduna, AR. Three-dimensional scapulothoracic motion during active and passive arm eleveation, *Clinical Biomechanics,* 20, 700-709, 2005.
2. **Ebaugh, DD**, McClure, PW, Karduna AR. Effects of shoulder muscle fatigue caused by repetitive overhead activities on scapulothoracic and glenohumeral kinematics. *Journal of Electromyography and Kinesiology*, 16, 224-235, 2006.
3. **Ebaugh, DD**, McClure, PW, Karduna AR. Scapulothoracic and glenohumeral kinematics following an external rotation fatigue protocol. *Journal of Orthopedics and Sports Physical Therapy*, 36, 8:557-571, 2006.
4. **Ebaugh, DD**,Spinelli, BA. Scapulothoracic motion and muscle activity during the raising and lowering phases of an overhead reaching task. *Journal of Electromyography and Kinesiology, 20, 199-205, 2010.*
5. Gard, K, **Ebaugh, D**. Case report. The use of acetic acid iontophoresis in the management of a soft tissue injury. *North American Journal of Sports Physical Therapy,* 5(4): 220-226, 2010.
6. **Research Support**

**Ongoing Research Support**

Clinical Research Grant Program 8/2012 – 5/2016

Oncology Section, American Physical Therapy Association.

*The Effect of Breast Cancer Treatment on Shoulder Complex Motion and Coordination.*

The objective of the proposed research is to determine the effect that breast cancer surgery and radiation treatment has on shoulder complex motion, coordination, and select musculoskeletal structures.

Role: PI

Sports Legacy Grant 5/2013 – 5/2016

*Relationship between Core Stability and Shoulder Injuries in Athletes.*

The specific aims of this study are to: 1) determine the strength of the association between clinical and lab-based measures of core stability in the athletic population and 2) identify the clinical and lab-based measures of core stability that are significant predictors of shoulder injuries in athletes.

Role: CO-PI with Marisa Pontillo, Sheri P. Silfies

**Competed Research Support**

Clinical Research Grant Program 6/2011 – 5/2014

Orthopaedic Section, American Physical Therapy Association

*Validity of Clinical Assessment of Resting Scapular Alignment and Scapulothoracic Movement Patterns.* The goals of this research project were to: 1) determine the ability of clinical assessments of resting scapular alignment and scapulohumeral movement patterns to identify individuals with shoulder pain and dysfunction, 2) establish the relationship between clinical assessments of resting scapular alignment and scapulohumeral movement patterns, and 3) use instrumented scapulohumeral kinematic data to expand the current understanding of the coordination and control of scapulohumeral movement.

Role: PI