Dr. Kang earned his doctorate at the University of Illinois at Urbana-Champaign. His background is in measurement and evaluation in Kinesiology with emphasis in IRT, Rasch, and psychometrics. His research interests focus on measurement issues in physical activity, including physical activity measurement and monitoring, validation of physical activity assessments, and evaluation and promotion of physical activity intervention.

FOR MORE INFORMATION CONTACT:

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ABOUT THE UNIVERSITY

The 500 acres of Middle Tennessee State University make up the oldest and largest public campus in the area. Easy to access because of its location at Tennessee’s geographic center, the university is only 30 miles from Nashville, the state capital.

MTSU, a comprehensive doctoral/research-intensive university, is one of the fastest growing institutions of higher education in the State of Tennessee. The university has approximately 24,000 students, with over 2600 graduate students actively engaged in post baccalaureate programs. We offer over 35 different graduate degrees (certificate, masters, specialist and doctoral) with more than 70 majors or concentrations.

For more information on the graduate studies programs at MTSU visit:

http://www.mtsu.edu/~graduate
**What is Kinesmetrics?**

Kinesmetrics is a discipline to develop and apply measurement theory, statistics, and mathematical analysis to the field of human performance.

Kinesmetrics is a composite word, where “Kines” presents “human movement” and “Metrics” means scale and quantity (Zhu, 2003).

**Foundation of Kinesmetrics**

The components to Kinesmetrics include measurement theory, research design, statistical/mathematical models, data characteristics, and computers/technology (see below).

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**PH.D. in Human Performance: Specialization in Kinesmetrics**

The Department of Health and Human Performance at MTSU offers the Ph.D. in Human Performance with specializations in five areas: Exercise Science, Health, Kinesmetrics, Leisure Studies, and Physical Education.

The Kinesmetrics specialization is designed to educate the next generation of measurement specialists in the area of human performance. Those who earn a Ph.D. degree will be qualified to work as research scientists or faculty at universities, or work in organizations that process and evaluate information, such as health departments, community health agencies, testing organizations, and data producing agencies.

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**Admission**

Requirements for the consideration of admission include the following:

- Expected GRE score of 1000 combined verbal and quantitative
- 3.00 GPA on last 60 credit hours of academic work (masters + bachelors)
- Three letters of recommendation
- A 400-500 word statement of purpose
- Research skills: 6 credit hours of statistics/research methods equivalent to HHP 6700 and 6610
- Master’s degree (bachelor or master’s degree must be in a related area)

Applicants with excellent research potential holding only a bachelor’s degree will be considered for admission. All students are required to have completed a thesis or scholarly equivalent prior to admission to candidacy.

For more information, please visit: [http://www.mtsu.edu/phd_guidelines/](http://www.mtsu.edu/phd_guidelines/)

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**Program Description**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Pedagogy (10 credits)</strong></td>
<td></td>
</tr>
<tr>
<td>HHP 7500: Practicum in Human Performance*</td>
<td>2</td>
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<tr>
<td>HHP 7610: Practicum in Human Performance*</td>
<td>2</td>
</tr>
<tr>
<td><strong>Research Tools (15 credits)</strong></td>
<td></td>
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<tr>
<td>HHP 7030: Research Seminar in Human Performance*</td>
<td>3</td>
</tr>
<tr>
<td>HHP 7710: Experimental Design in Human Performance*</td>
<td>3</td>
</tr>
<tr>
<td>HHP 7700: Adv. Data Analysis and Organization for HHP*</td>
<td>3</td>
</tr>
<tr>
<td><strong>Six additional credit hours in consultation with advisor</strong></td>
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</tbody>
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**Kinesmetrics Specialization (23 credits)**

- EXSO 6800: Measurement in Exercise and Sport 3
- HHP 7060: Field Work or Laboratory Experiment in HHP* 3
- HHP 7300: Current Measurement Issues in HHP* 3
- HLTH 7120: Research in Epidemiology 3
- PSY 6280: Psychological Statistics: Regression* 3
- PSY 6290: Psychological Statistics: ANOVA 3
- PSY 6460: Factor Analysis and Related Methods 3
- PSY 6550: Structural Equation Modeling 3
- PSY 6560: Computer-Based Statistical Packages 3
- PSY 7210: Advanced Psychometrics* 3
- PSY 7580: Multivariate Data Analysis* 3
- PSY 7585: Test Construction and Validation 3
- SOC 6720: Qualitative Research Methods 3

**Dissertation (12 credits)**

- HHP 7640: Dissertation Research* 12

* Denotes required course. Additional courses may be added with the permission of the advisor.

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**Financial Aid**

Limited numbers of graduate teaching assistantships, research assistantships, scholarships, and doctoral fellowships are available. Students must meet the requirements for admissions to graduate school and have a cumulative GPA of 3.00 or higher.

For more information, please visit: [http://scholarships.web.mtsu.edu/](http://scholarships.web.mtsu.edu/)