

**Current Address:**  
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48104

## Matthew T. Vanderpool

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www.mattvanderpool.com

- Education:** **University of Michigan** Ann Arbor, MI  
MSE Biomedical Engineering Anticipated - May 2007  
Concentration: *Biomechanics*  
Advisor: Arthur D. Kuo – Departments of Mechanical and Biomedical Engineering
- University of Michigan** Ann Arbor, MI  
BSE. Mechanical Engineering May 2006  
*Magna Cum Laude*
- Research Experience:** **University of Michigan Biomechanics Research Lab** Ann Arbor, MI  
Research Assistant May 2005 - Present  
• My research focuses on Energetic costs of walking with a disabled ankle, energetics of carrying loads.
- Industry Experience:** **Medtronic** Minneapolis, MN  
Summer Associate – Sensor Engineering May 2006-August 2006  
• Conducted research on reliability of optical fibers  
• Developed project description, goals, timeline, and success criterion  
• Organized meetings with full time employees and in-company experts  
• Designed and built test setup, wrote test protocols, and started testing
- Works Presented at Conferences:** • **Vanderpool MT**, Kuo AD, “Energetic cost of fixed ankle motion during human walking”, Dynamic Walking, May 6-8, Ann Arbor, Mi (2006)
- Teaching Experience:** **Sailing Instructor – Bayview Junior Sailing Inc.** Detroit, MI  
Level 1 and 2 U.S. Sailing Certified Instructor Summers 2002 - 2004  
• Taught 8-18 year olds how to race sailboats  
• Developed instruction curriculum  
• Tested and evaluated sailors
- Leadership / Management Experience:** **Michigan Sailing Team** Ann Arbor, MI  
*Team Captain* December 2002-December 2004  
• Ran a club sports team of 30- 40 college athletes and a team Executive Board of 8 members  
• Developed team goal sets, achievement plans, and timeline  
• Organized weekly executive board and team meetings, budget, fundraising drives, team practices, travel plans, and off the water training.  
• Lead the team from qualifying for 0 of 7 National Championship regattas when I was elected to 3 of 7 after my first year and then 5 of 7 after my final year
- Awards:**  
• Deans List Fall 2003, 2004, Winter 2004, 2005, 2006  
• University Honors Fall 2002-2004, Winter 2003-2006  
• Midwest Collegiate Sailing Association (MCSA) Sportsmanship Award 2004  
• MCSA All-District Skipper Award 2004
- Academic Societies:**  
• Pi Tau Sigma (National Mechanical Engineering Honor Society)

**Activities:**

- Pi Tau Sigma Academic Officer – Winter 2006
- Michigan Sailing Team:
  - Part Time Coach, Sept. 2006- Present
  - Team Captain, Jan 2003- Jan 2005
  - Webmaster and Athlete, 2002 - 2006
- Web Designer/Programmer – Dept. of Mechanical Engineering, U of M, Ann Arbor, MI  
Sept. 2005 – May 2006
- Sailing, Cycling, Running, Photography, Music and Web Design