

Christopher R. Cherry

Assistant Professor

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY, Berkeley, CA, Ph.D. Candidate in Civil and Environmental Engineering-Transportation. Minors in City and Regional Planning and Economics. Awarded May 2007.

Dissertation Topic: Environmental, Safety and Mobility Implications of Electric Two-Wheeler Use In China

UNIVERSITY OF ARIZONA, Tucson, AZ, Masters of Science in Civil Engineering-Transportation. Awarded December 2003.

UNIVERSITY OF ARIZONA, Tucson, AZ, Bachelor of Science in Civil Engineering. Awarded December 2000.

RESEARCH INTERESTS

- Transportation Needs of Rapidly Developing Countries-specifically China
- Multimodal Transportation Planning and Operations
- Public Transportation Systems
- Travel Behavior and Demand
- Transportation Economics
- Transportation and the Environment
- Transit Security

ACADEMIC RESEARCH AND TEACHING EXPERIENCE

08/2007 to present **UNIVERSITY OF TENNESSEE, KNOXVILLE Assistant Professor**

08/2003 to 5/2007 **UC, BERKELEY. Berkeley, CA** **Graduate Student Researcher/Instructor**

Motorization, Mobility, and Accessibility in China-UC Berkeley Center for Future Urban Transport (06/2005 to 5/2007)

- Dissertation Research: Analyzing the sustainability implications of recent widespread electric bike adoption in China
- Conducting research with academic collaborators from Tsinghua University, Tongji University and Kunming University of Science and Technology (Field work in China 6/2005-8/2005 and 3/2006-6/2006)
- Assisting in the investigation of travel behavior impacts of new suburban developments

Regional Express Bus Plan-Arterial Revitalization-UC Transportation Center (06/2004 to 06/2005)

- Developed microsimulation traffic models using Paramics to analyze express bus infrastructure improvements
- Analyzed HOV lane improvements on a congested urban freeway
- Analyzed signal optimization and queue jump lane configurations for a congested urban arterial
- Conducted corridor wide parking and economic development analysis
- Collaborated with public officials and agencies

System Design for Transit Security-Mineta Transportation Institute (01/2004-05/2004)

- Conducted research on transit terminal design related to counter-terrorism security
- Conducted four case studies of rail terrorism incidents drawing conclusions on mitigation through design
- Developed a chronology of world-wide rail transit terrorism incidents over the previous 30 years

Graduate Student Instructor-Computer Programming For Engineers (08/2003-12/2003 and 01/2007 to 5/2007)

- Currently instructor of five discussion sections comprising over 150 students
- Lab instructor for a MATLAB programming course for engineers
- Taught and monitored lab sections, conducted office hours and graded exams

01/2002 to 06/2003 **UNIVERSITY OF ARIZONA. Tucson, AZ** **Research Assistant**

- Conducted research developing a map based internet itinerary planner for transit
- Utilized existing GIS tools and software to develop a trip planner system for the Tucson bus network

- Participated in various research activities including remote sensing vehicle detection and travel time studies
- Occasionally had teaching responsibilities for undergraduate transportation classes

06/2001 to 12/2001 Visited Kunming, China

- Spent six months studying the language and culture of China
- Casually observed urban transportation systems and challenges
- Influenced my interest in the rapid motorization issues of China

03/1999 to 12/2000 UNIVERSITY OF ARIZONA. Tucson, AZ

- Teaching assistant for a surveying lab in the Civil Engineering Department
- Grader for Civil Engineering professors
- Tutored students with learning disabilities

PROFESSIONAL EXPERIENCE

03/2003 to 06/2003 CARTER BURGESS. Dallas, TX Project Supervisor

- Supervised a comprehensive travel time study for the entire City of Tucson, Arizona
- Utilized GPS and GIS to measure travel times for all major arterials in the city
- Responsible for project planning, data collection, fleet management and personnel management

11/2000 to 06/2001 MMLA. Tucson, AZ Engineering Designer

- Utilized Microstation J and Autocad 14 on roadway design projects
- Prepared environmental assessment and mitigation reports
- Assisted project engineers with various design tasks through all phases of design

06/2000 to 08/2000 EXXON/MOBIL. New Orleans, LA Engineering Intern

- Managed an equipment installation project on an offshore platform
- Managed and supervised personnel and equipment logistics involving the project
- Gained valuable project management skills of large scale projects

08/1999 to 05/2000 RS ENGINEERING. Tucson, AZ Engineering Intern

- Utilized Microstation J and Autocad 14 on roadway design projects

06/1999 to 08/1999 S and S SURVEYS, INC. Tucson, AZ Land Surveyor

- Conducted a GPS survey for the City of Tucson
- Proficient in Tripod Data Systems with GPS software

05/1997 to 08/1997 KELLEY/WISE ENGINEERING. Prescott, AZ Land Surveyor

05/1998 to 08/1998

- Assisted in construction, topographic and boundary surveying

PUBLICATIONS

Refereed Journals

Cherry, C., M. Wachs, A. Loukatou-Sideris (2007) *Subway Station Design: Lessons Learned from Case Studies of Contemporary Terrorism Incidents*. Journal of Architectural and Planning Research. (forthcoming)

Weinert, J.X., C.T. Ma, X.M. Yang, C. Cherry (2007) *The Transition to Electric Bikes in China: Effect on Travel Behavior, Mode Shift, and User Safety Perceptions in a Medium-Sized City*. Transportation Research Record. (forthcoming)

Cherry, C., R. Cervero (2007) *Use Characteristics and Mode Choice Behavior of Electric Bike Users in China*. Transport Policy. Vol. 14. Issue 3.

Weinert, J., C.T. Ma, C. Cherry (2007) *The Transition to Electric Bikes in China: History And Key Reasons For Rapid Growth*. Transportation. Vol. 34. Issue 3.

Deakin, E., C. Cherry et al. (2006) *System Plan for Bay Area Regional Express Bus Service*. Transportation Research Record 1986. Transportation Research Board.

- Cherry, C., E. Deakin, S.B. Huey, N. Higgins (2006) *Toward a Systems Level Approach to Sustainable Urban Arterial Revitalization: A Case Study of San Pablo Avenue*. Transportation Research Record 1977. Transportation Research Board.
- Cherry, C., M. Hickman, A. Garg (2006) *Design of a Map Based Transit Itinerary Planner*. Journal of Public Transportation. Vol. 9 No. 2.
- Cherry, C. (2005) *Development of Duration Models to Determine Rolling Stock Fleet Size*. Journal of Public Transportation. Vol. 8 No. 3.
- Cherry, C., E. Tang, E. Deakin, A. Skabardonis (2005) *Analysis of Freeway Improvements for Express Bus Service*. Transportation Research Record 1925. Transportation Research Board.

Conference Proceedings

- Cherry, C. (2007) *The Costs and Benefits of Electric Bike Use in China*. The 11th World Conference on Transport Research, Berkeley, CA June 24-28, 2007
- Weinert, J.X., Z.D. Ma, X.M. Yang, C. Cherry (2007) *The Transition to Electric Bikes in China: Effect on Travel Behavior, Mode Shift and User Safety Perceptions in a Medium-Sized City*. The 86th Annual Meeting of the Transportation Research Board. Washington D.C. CD-ROM
- Cherry, C., J.X. Weinert, C.T. Ma (2006) *The Environmental Impacts of E-bikes in Chinese Cities*. Better Air Quality 2006. Yogyakarta, Indonesia. December 13-15, 2006
- Weinert, J., C.T. Ma, C. Cherry (2006) *The Transition to Electric Bikes in China: History and Key Reasons for Rapid Growth*. EVS22-The 22nd International Battery, Hybrid and Fuel Cell Electric Vehicle Symposium and Exhibition. Yokohama, Japan. October 23-28, 2006
- Deakin, E., C. Cherry et al. (2006) *System Plan for Bay Area Regional Express Bus Service*. The 85th Annual Meeting of the Transportation Research Board. Washington D.C. CD-ROM
- Cherry, C., E. Deakin, S.B. Huey, N. Higgins (2006) *Toward a Systems Level Approach to Sustainable Urban Arterial Revitalization: A Case Study of San Pablo Avenue*. The 85th Annual Meeting of the Transportation Research Board. Washington D.C. CD-ROM
- Cherry, C., E. Tang, E. Deakin, A. Skabardonis (2005) *Analysis of Freeway Improvements for Express Bus Service*. The 84th Annual Meeting of the Transportation Research Board. Washington D.C. CD-ROM
- Cherry, C. (2005) *Subway Station Design: Lessons learned from Case Studies of Contemporary Terrorism Incidents*. The Dwight David Eisenhower Transportation Fellowship Program Showcase Presentation at the 84th Annual Meeting of the Transportation Research Board.
- Cherry, C., A. Garg, M. Hickman (2004) *Development of a Map-Based Transit Itinerary Planner*. The 83rd Annual Meeting of the Transportation Research Board. Washington D.C. CD-ROM
- Cherry, C., A. Garg, M. Hickman (2003) *Map Based Transit Itinerary Planning*. GIS for Transportation Symposium. Colorado Springs, CO.
- Cherry, C. (2001) *Historical Significance of Present Transportation Issues*. ITE District 6 Annual Meeting. Albuquerque, NM-Compendium of Technical Papers. CD-ROM.

Technical Reports

- Taylor, B., A. Loukaitou-Sideris, R. Liggett, C. Fink, M. Wachs, E. Cavanagh, C. Cherry, P. Haas (2006) *Designing and Operating Safe and Secure Transit Systems: Assessing Current Practices in the U.S. and Abroad*. Mineta Transportation Institute. San Jose State University. MTI 04-05.
- Cherry, C. (2005) *China's Urban Transportation System: Issues and Policies Facing Cities*. UC Berkeley Center for Future Urban Transport. ITS Working Paper UCB-ITS-VWP-2005-4.
- Deakin, E., K. Armstrong, C. Cherry, J. Day, C. McAndrews, L. Mejias, J. Rubin, J. Stagi, T. Valentin (2005) *Revitalization and Integrated Traffic Management Along a Multimodal Urban Arterial: A Plan for the San Pablo Corridor that Promotes Prosperity, Environmental Protection, and a Higher Quality of Life*. The Environmental Protection Agency P3 Student Award Competition. Project Number SU831 G4S20398
- Cherry, C., E. Tang, E. Deakin, A. Skabardonis (2005) *Analysis of Freeway Improvements for Express Bus Service*. Chapter 4.2 Regional Express Bus Plan for the Bay Area. Caltrans District 4
- Higgins, N., E. Tang, C. Cherry, S.B. Huey, E. Deakin, A. Skabardonis (2005) *Optimizing Transit Priority on a High Volume Arterial: A Case Study of San Pablo Avenue*. Chapter 4.3 Regional Express Bus Plan for the Bay Area. Caltrans District 4.

AWARDS, HONORS AND SCHOLARSHIPS

Awards: Gene Wildman Scholarship '99, Clarence Wilson Scholarship '00, ITE District 6 Student Paper Award '01, Jimenez Highway Scholarship '01, CH2M Hill Scholarship '02, ITE Arizona Section Student Paper Award '03, ITE San Francisco Bay Area Section Student Paper Award '04, National Defense Transportation Association Scholarship '04, NSF East Asia and Pacific Summer Institute (China) '05, UC Pacific Rim Research Program Mini-Grant '06, Eisenhower Transportation Fellowship '04-'06, Eno Fellowship '07.

Academic Recognition: Undergraduate Dean's List, Civil Engineering Department valedictorian and pre-commencement student speaker 12/2000.

Memberships and Offices: ITE, ASCE, University of Arizona ITE Student Chapter (Co-Founder and Previous President), Registered EIT in Arizona

REFERENCES

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