

JASON N. MEGGS

Low Carbon City Planning & Public Health

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OBJECTIVE: World Change

EDUCATION:

University of California at Berkeley, dual Master's degree (2009), GPA 3.8

Master of City Planning: Transportation & Land Use Concentrations; International Field

Master of Public Health: Environmental Health Sciences

- Mentor Committee, College of Environmental Design (2005-2006)
- Hired new Parking & Transportation Director in national search committee (Fall 2006)

New College School of Law, Juris Master's degree (2003)

- Elected to Hiring Committee, conducted interviews & assessments for new teaching staff

University of California at Berkeley

B.A. in Computer Science, minor Entomology, 1996

INTEREST & SKILL AREAS:

Advocacy; Climate Change, Transportation & Land Use (SB 375 & AB 32); Health Impact Assessment (HIA); Policy; Research Teams (GIS, statistics, modeling, data acquisition & verification, publishing, communicating to the public); Petroleum-free transport systems (bicycle, pedestrian, electrified mass transport); Collaboration of Agencies & Community Groups; Regulatory Reform; Environmental Law (CEQA, NEPA, HIA).

EXPERIENCE

DICAM - Transport Engineering Group, University of Bologna, Italy, 2010-present

Innovating Sustainable Transport Solutions at the Oldest Continuously Operating University in the World

Transportation, Health & Sustainability Researcher/Lecturer

- Analysis of Bicycling; Policy Recommendations, EU BICY project, Central Europe (<http://bicy.it/>)
- Principal author, ITACA EU Climate Planning Document, <http://powerprogramme.eu/>
- Researching Public Health & the Urban Environment
- Carfree Cities, Districts and Areas (projects and studies)
- Master's level course development & instruction on Pedestrian & Bicycle Planning
- Report writing and analysis for EU project ITACA, *Realizing Sustainable Transport*
- Developing tools for bicycle trip modeling in OpenStreetMap
- Advancing existing Travel Demand model incorporating the Soft Modes (Python-based)

Escher City Associates, 2008-Present

Principal

- Advised new sustainable city project in China (environmental health, land use & transportation)
- Health Impact Assessment (HIA) national review, Health Impact Project, PEW Charitable Trusts
- *Planning for Healthy Aging* team member: community resource building (web & survey-based)

- Organized, produced & hosted live, televised Mayor & Council election forum for coalition of 14 groups including TransForm, Urban Ecology, Ecology Center & Sierra Club
- Researched creation of renewable energy desalination systems for start-up
- Led community-based environmental justice meetings
- Statistical/IPUMS-USA data mining and analysis for MIT labor study
- Consolidating bicycle data into new system for City of Oakland
- Research support for BICY project, European Union

Environmental Health Sciences Division, School of Public Health, UC Berkeley, 2007-2008

Graduate Student Researcher

- Bicycle & Pedestrian Traffic Calming Health Impacts research (teamwork and original research)
- Key to creating first statewide Land-Use Regression Models of Air Pollution Exposure, using GIS
- Created best available mosaic of California using Remote Sensing image tiles in ERDAS Imagine
- Wrote original Python scripts for mass-processing large dataset collections
- Managed research documents through final publication process (NEJM, EHP)

Integrative Biology Department, College of Letters & Science, UC Berkeley, 2007

Bringing together a diversity of complementary disciplines to unravel the complexity of biology

Graduate Student Instructor

- TA for Biology 1B (Ecology, Plant Biology, & Evolution)
- Organized & led labs, field trips; created assignments, graded papers

East Asian Languages & Cultures Department, UC Berkeley, 2006

Graduate Student Instructor

- TA for Korean 7A (Premodern Korean Literature & Culture)
- Led discussions (3/week); created assignments, graded papers, tracked course data

Mission Economic Development Agency, San Francisco, CA, 2006

Dedicated to improving economic & social conditions, & protecting cultural diversity in the Mission

Community Transportation & Land Use Planner

- Surveyed & made recommendations for bicycle & pedestrian needs in the Mission District
- Created policies for Transportation Justice Element & other sections of *El Plan Popular*
- Policies often adopted into parallel city process during plan development
- Conducted Multilingual outreach to & surveys of low-income Latino community
- Worked w/key stakeholders, City & organizations to assess community needs & potential solutions
- Coordinated staff for special projects

Institute of Industrial Relations, UC Berkeley, 2005-2006

Graduate Student Researcher

- Performed statistical research on the impacts of big box retail trends
- Tracked down industry data
- Wrote original PERL scripts to process & assemble data

Bike Station, Bicycle-Friendly Berkeley Coalition, 2005

Attended bicycle parking facility located in the Downtown Berkeley BART

Manager

- Integral to inter-agency expansion plan; helped win \$500,000 TLC capital grant
- Increased usage over 60% & tripled retail income to 300%
- Conducted surveys & created promotions, events, & new services
- Worked w/key stakeholders including business district, city & community

- Oversaw 10+ staff; responsible for hiring & training; directed special projects

Doctoral Project, Department of City & Regional Planning, UC Berkeley, 2005

GIS Technician

- Assisted in analysis of bicycle/pedestrian behavior in a district of Copenhagen, Denmark

Pedestrian Safety Task Force, California Department of Transportation, 2004

Video Production

- Created promotional video for Walk/Bike California Conference w/ Public Health theme
- Interviewed involved parties & adapted conference materials to create content

San Francisco County Transportation Authority, 2004

Field Researcher, Geary Street Bus Rapid Transit Feasibility Study

- Conducted real-time data collection under crush load conditions

EarthRights, International, Washington, DC, 2003

Law Clerk

- Assisted Doe v. UNOCAL Alien Tort Claims Act suit (human rights violations for Burma pipeline)
- Investigated accountability of Presidential Executive Orders under Bush regime.

Calwell Practice, Charleston, WV, 2003

Law Clerk

- Toxic torts legal research & writing: pesticides, occupational solvents; entomology research
- Additional work investigating accountability of coal industry trucking impacts in West Virginia

Bicycle Civil Liberties Union, 1997-2009

California State Coordinator

- Police Accountability (administrative hearings, documentation, regulations)
- Civil Rights suits (documentation & evidence, depositions, trials, motions)
- Documentation of complaints; assistance to injured pedestrians & cyclists

Bike the Bridge! Coalition, 1996-2001

East Bay Coordinator

- Won promise of bicycle & pedestrian access to new Bay Bridge in lengthy campaign
- Conducted regional campaigns for equal access to all Bay Area toll bridges
- Key player in multi-year processes at Bay Conservation & Development Commission, Metropolitan Transportation Commission, Bay Area Rapid Transit District, & Caltrans (DOT)

Bicycle-Friendly Berkeley Coalition, 1995-2009

Working to make Berkeley the most bicycle-friendly place in the U.S.A.

Member, Board of Directors

- Integral to development of successful, membership & grant-supported nonprofit
- Key player in creation & passage of Berkeley Bicycle Plan, funds for transit, biking & walking, & trans-I-80 bicycle/pedestrian bridge to marina; spearheaded Berkeley Bike Station
- Organized major events including internationally celebrated Bicycle Film Fest, membership parties; created "Beginner Bicyclist" course at YMCA
- CEQA/NEPA appointee; hearings, official comments
- Oversaw & directed volunteer groups for numerous events & campaigns
- Policy development & recommendations to city, county, state, & national entities

- Outreach to low-income & minority communities, including Spanish outreach & materials

UC DATA, Survey Research Center, University of California, Berkeley, 1995-2003

UC Berkeley's principal archive of computerized social science & health statistics.

Programmer/Analyst II(III)

- Lead UNIX systems administrator, supporting statistical research over large datasets in multiplatform environment
- Responsible for hardware & network installation & troubleshooting, web services, security, networking, robot-controlled backups, & user support (tutoring/training/authoring)
- Multilingual Information Retrieval research team member; created competitive 10% improvement in entries to Text Retrieval Conference (TREC); Chinese, Spanish, German, British filters
- Early lead for Census web interface (CGI scripting, HTML, data management & planning)
- Oversaw & trained staff for routine operations & special projects, created tech tutorials

San Francisco State University, 1994

Research Assistant

- Conducted split-keyboard ergonomic keyboard study
- Managed research subjects; consent, training, fitting equipment, conducting tests, assembling data.

PRESENTATIONS:

Petroleum-Free Transportation Solutions: Grid-Connected Vehicles with Human Power

Presented at the World Ecocity Summit, 2008 & Portland's Carfree Cities Conference, 2008, and local groups. Focusing on conversion of the diesel fleet (trucks and buses) to direct electric drive (overhead wires) to achieve major energy, cost, health, and environmental benefits.

Transportation Justice Element, *El Plan Popular*.

Towards Carfree Cities Conference VI, September 20-24, 2006. Bogotá, Colombia.

Guest Lecturer, Boalt Hall Environmental Law Society Speaker Series, "Bike Law" presentation, 1998-2006: (thrice invited speaker). Multimedia (video, handouts, Power Point).

LANGUAGES:

FLUENT: English

CONVERSATIONAL: Spanish. (Have used Spanish professionally over a 20 year period.)

FAMILIARITY: Esperanto, Finnish, French, German, Korean, Latin, Loglan/lojban, Mandarin, others.

COMPUTER SKILLS

Languages: PERL, Python, C/C++, LISP, BASIC, Assembly, FORTRAN, shell scripting, others.

Statistical packages: STATA, SPSS; support for SAS users; some study of R.

Web: Dreamweaver, HTML, CGI scripting, familiarity with PHP and MySQL.

Image processing: Adobe Photoshop, GIMP, others.

GIS: ArcGIS, TRANSCAD, ERDAS Imagine; experimentation with open source GIS packages.

Video: Final Cut Pro, Adobe Premiere, iMovie, linear (analog) w/PC-era CG tools.

Layout: Adobe Illustrator, Quark.

Word Processing: Microsoft Word, OpenOffice, WordPerfect, emacs, vi, others.

Presentations: Microsoft PowerPoint, others.

Spreadsheets & databases: Microsoft Excel, Microsoft Access, OpenOffice, others.

Reference software: EndNote, RefWorks

Traffic Engineering: Highway Capacity Software (HCS 2000)

Computer Aided Design (CAD): various programs, especially for circuit design.

SUSTAINABILITY

Transportation:

- 15+ years experience in bicycle & pedestrian planning & advocacy; landmark victories
- Modeling of VMT, CO2, criteria pollutants, health impacts using GIS & statistics (TRANSCAD, ArcGIS, STATA, SAS, SPSS, traffic analysis)
- Policy contributor, committee member & advocate throughout numerous planning processes including Transportation Demand Management studies, General Plans, Area Studies, Bicycle & Pedestrian Plans, Community-Based Planning, etc.
- Research on transition to petroleum-free transportation system (people & goods movement)

Environmental Health:

- Air & Noise pollution research (GIS, statistics, USA/China field work, & literature reviews)
- Health Impact Assessment (coursework & study participant with SF DPH)
- Ergonomic keyboard study research assistant; managed human subjects
- Lifetime advocate for pesticide reform; toxic torts legal work; toxicology coursework
- CEQA / NEPA experience & legal training

University System:

- Chancellor's Advisory Committee on Sustainability (2005-2006)
 - Organized events & spearheaded campus accountability initiative
- Appointed to Bicycle Committee for creation of first Campus Bicycle Plan (2005-2008)
- Participation in Campus Sustainability Assessment
- Sustainability Conference (UC/CSU/CCC) 4-year contributor/participant

Energy:

- Energy policy & transportation energy coursework; physics; etc.
- Petroleum-free transportation research; speaker at conferences
- NABCEP certified for knowledge of Solar Photovoltaics & Implementation

Agriculture:

- Entomological sciences degree
- Organic farming coursework & volunteering

Water:

- Bay Conservation & Development Commission (BCDC) permit processes
- Clean water systems using renewable energy (business plan research)
- Storm water & urban permeability: environmental justice & sustainability implications
- Creek restoration participant & coursework

Recycling & Re-use:

- Conducted campus-wide paper saving & procurement campaign
- Compost manager for 88-member, three-building student co-op (supervised 3)
- Mobile dishware system initiator for campus events to avoid use of disposables

Green Buildings:

- LEED & Natural STEP trainings & workshops
- Green building planning participant for numerous buildings

- Spearheaded certification of Berkeley Bike Station as Green Business