

From GPS and Google Maps to Spatial Computing

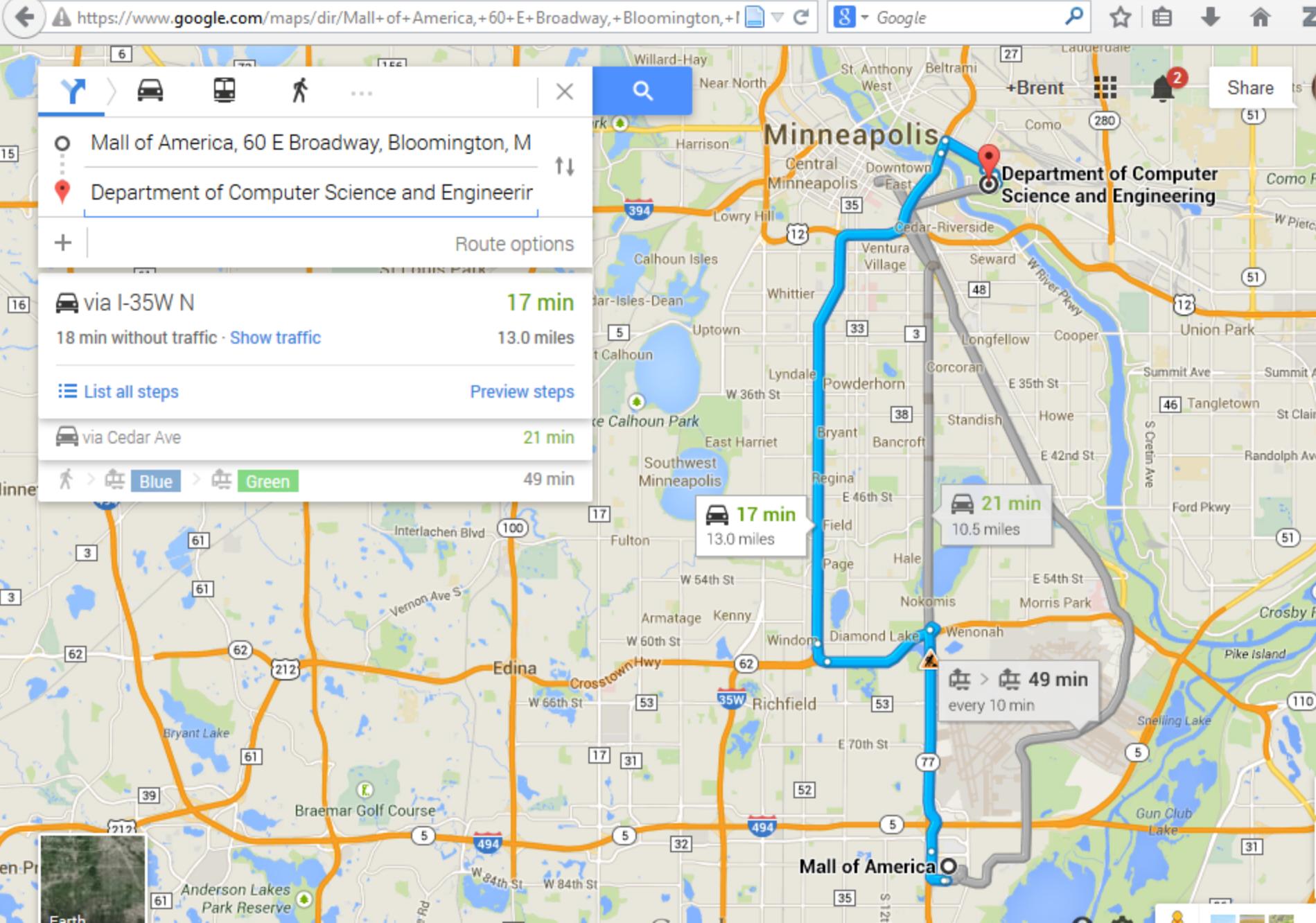
grouplens

UNIVERSITY OF MINNESOTA

UNIVERSITY OF MINNESOTA
Driven to DiscoverSM

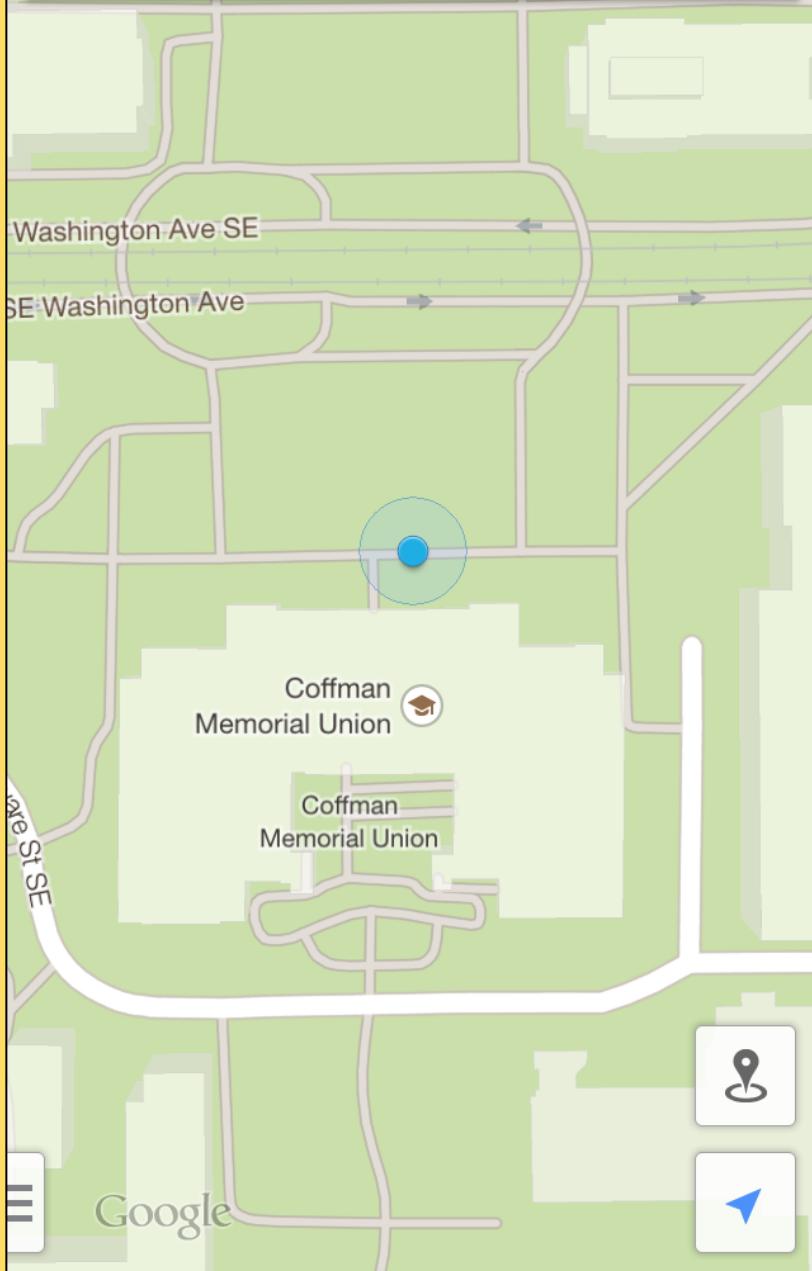


Spatial Computing
Research Group





Search



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Sort By	Neighborhoods	Distance
Best Match	<input type="checkbox"/> Downtown	Bird's-eye View
Highest Rated	<input type="checkbox"/> Minneapolis	Driving (5 mi.)
Most Reviewed	<input type="checkbox"/> Uptown	Biking (2 mi.)
	<input type="checkbox"/> Northeast	Walking (1 mi.)
	<input type="checkbox"/> Longfellow	Within 4 blocks
	More Neighborhoods	

Ad **India House**

★ ★ ★ ★ 68 reviews

Indian

Summer
758 0
Saint
(651)

and I saw the sign go up a couple of months ago, a big FINALLY was s
earth-shattering or anything, but it's good enough to satisfy a craving fo

(De

www.tripadvisor.com/Tourism-g43323-Minneapolis_Minnesota-Vacations.html

tripadvisor Minneapolis Tourism

Minneapolis Hotels Flights Vacation Rentals Restaurants Things to

United States > Minnesota (MN) > Minneapolis Tourism

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Search

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ex: 37.407229, -122.107162

Get Directions History

MN School of Business Ads
Classes Start Soon. Enroll Now.
10 MN Campuses, or Online.
info.mbscollege.edu/Get-Started

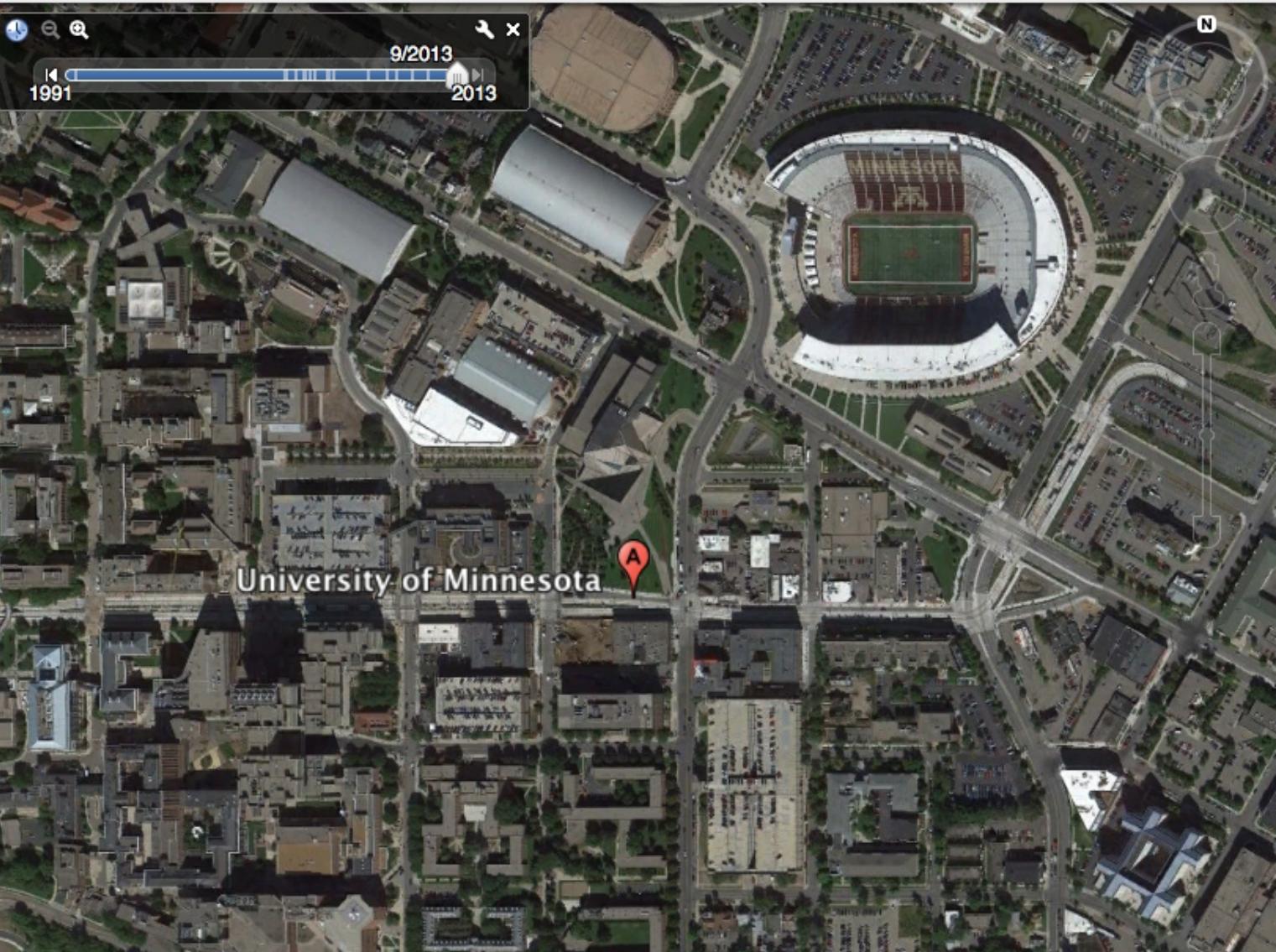
A University of Minnesota Minneapolis, MN, United States (612) 625-5000 · umn.edu 43 reviews

Places

- My Places
- Sightseeing Tour Make sure 3D Buildings
- TC Bounding Box
- Temporary Places

Layers

- Primary Database
- Borders and Labels
- Places



Historical satellite imagery of the University of Minnesota in Google Earth

Google earth

Minneapolis MN Real Estat... + ↗

www.zillow.com/homes/for_sale/Minneapolis-MN/house_type/5983_rid/3-b

Google

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Minneapolis, MN For Sale \$200K - \$300K 3+ Beds more (1) Save Search Saved Homes (5) Map List

Brooklyn Park Fridley Arden Hills Army Training Site New Brighton Brooklyn Center Crystal Anthony Falcon Heights St Louis Park Edina Richfield Mendota Heights Fort Snelling State Park

Map 18 Photos

Minneapolis Real Estate

192 results.

Featured Newest Cheapest more ▾

House For Sale **\$214,900**
Zestimate®: \$145K
Special Offer: \$6,500

House For Sale **\$209,900**
Open: Sun. 11am-1pm
FEATURED

House For Sale **\$214,700**
3 days on Zillow
FEATURED

House For Sale **\$259,900**
7 days on Zillow

[3621 Portland Ave, Minneapolis](#)
4 beds, 3 baths, 2,312 sqft
4,329 sqft lot
Built in 1914
National Realty Guild

[4305 Columbus Ave, Minneapolis](#)
3 beds, 1 bath, 1,620 sqft
4,791 sqft lot
Built in 1929
Coldwell Banker Burnet - Minneapolis

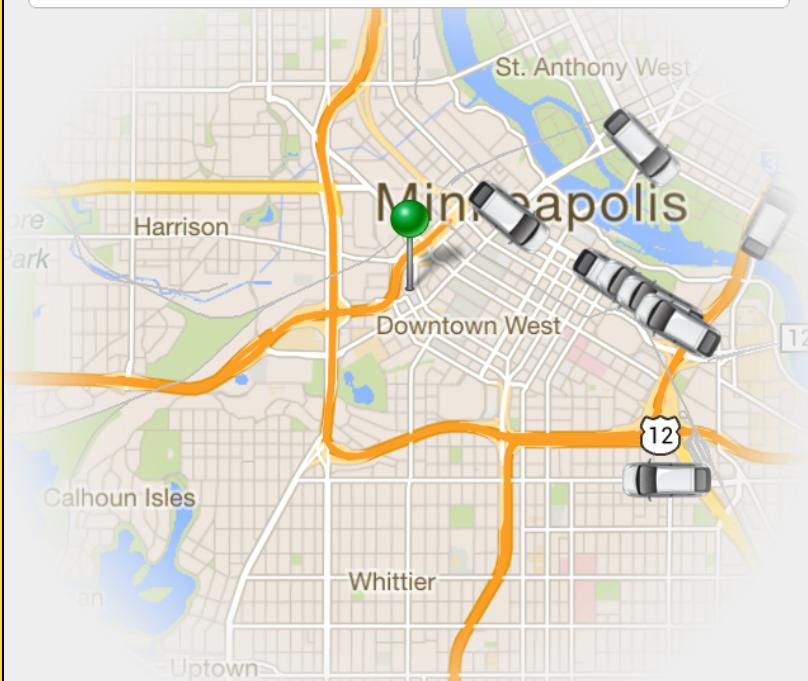
[4255 Russell Ave N, Minneapolis](#)
3 beds, 2 baths, 2,226 sqft
5,662 sqft lot
Built in 1932
Coldwell Banker Burnet - Forest Lake

[4508 Park Ave, Minneapolis](#)
3 beds, 1.5 baths, 1,801 sqft
4,791 sqft lot

CANCEL

CONFIRMATION

● 7th St Garage & Transit Center +



VISA

CHANGE



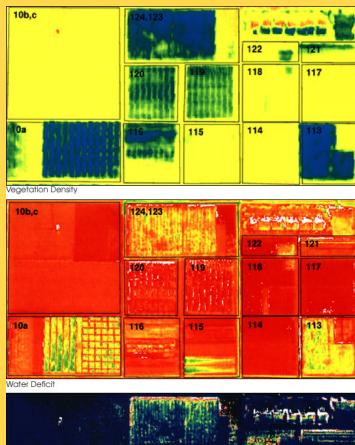
FARE QUOTE



PROMO CODE

REQUEST uberX

PICKUP TIME IS APPROXIMATELY 5 MINS



Precision Agriculture

[http://commons.wikimedia.org/wiki/
File:Daedelus_comparison,_remote_sensing_in_precision_farming.jpg](http://commons.wikimedia.org/wiki/File:Daedelus_comparison,_remote_sensing_in_precision_farming.jpg)

October 28, 2013, 5:08 PM ET

UPS Says Automated Routing Will Transform Package Delivery

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By STEVE ROSENBUCH
Deputy Editor



Tracking Endangered Species

<http://www.gps.gov/applications/environment/>

How Crisis Mapping Saved Lives in Haiti
Posted by **Patrick Meier** of National Geographic Emerging Explorers on July 2, 2012

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To map the world, is to know it. To map the world live is to change it before it's too late.

The National Geographic Society has a long history of crisis mapping disasters. But what January 12, 2010 would forever change the very concept of a crisis map. A devastating country's capital that Tuesday afternoon. I was overwhelmed with emotions when I heard later. Over 100,000 people were feared dead. Some very close friends of mine were doing Prince at the time and I had no idea whether they had survived the earthquake. So I laid off of Haiti. But this was an emotional reaction rather than a calculated plan with a detailed and felt the need to do something, anything. It was only after midnight that I finally got a

Better site selection, logistics

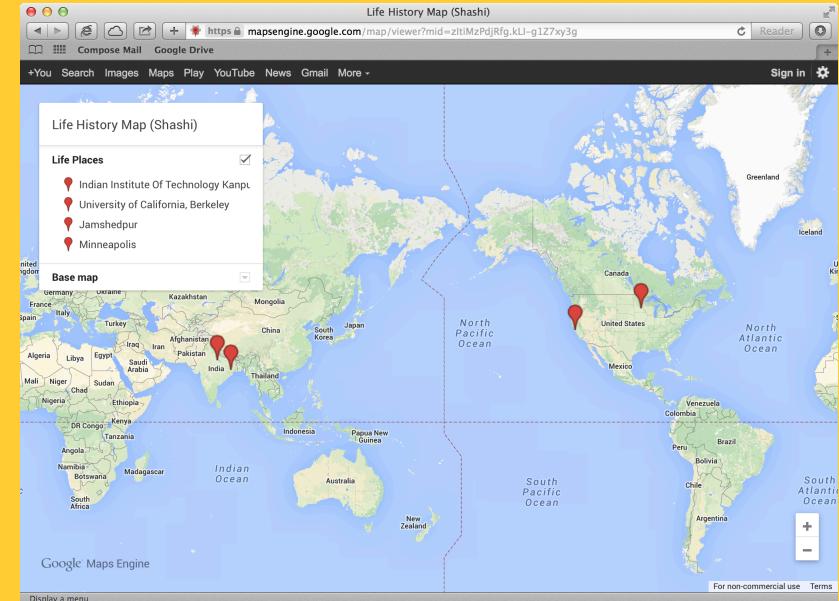
<http://blogs.wsj.com/cio/2013/10/28/ups-says-automated-routing-will-transform-package-delivery/>

Public safety applications

<http://newswatch.nationalgeographic.com/2012/07/02/crisis-mapping-haiti/>

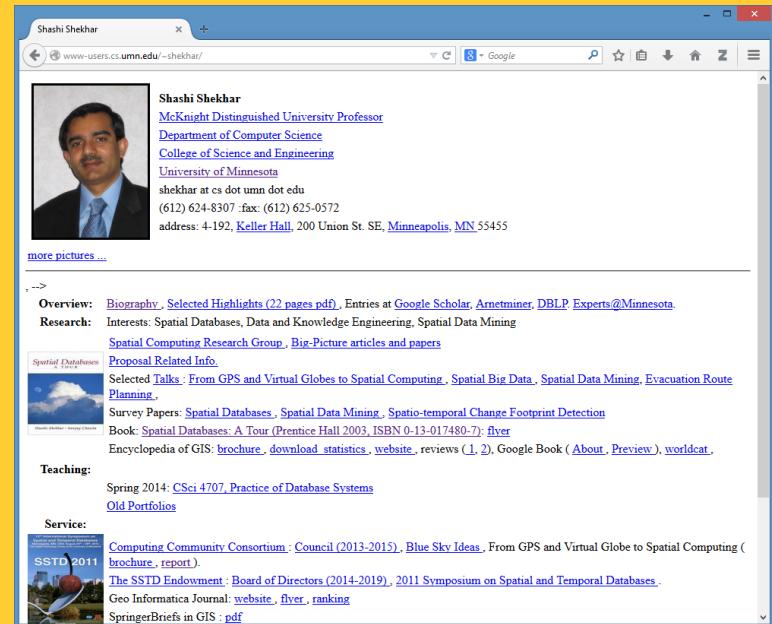
Dr. Shashi Shekhar

- Born and raised in Tata Nagar, India
- Bachelor's Degree in Computer Science (IIT Kanpur)
- Master's Degree in Business Administration and Computer Science (UC Berkeley)
- Ph.D. in Computer Science (UC Berkeley)



Dr. Shashi Shekhar

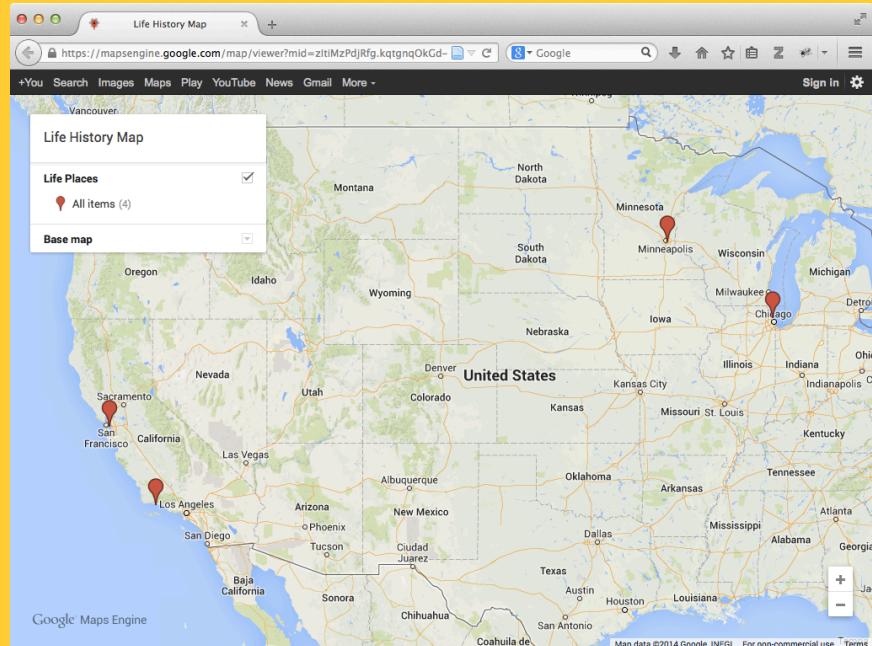
- Spatial Databases
 - Storage Methods
 - Routing Algorithms
- Spatial Data Mining
- High-Performance GIS



cs.umn.edu/~shekhar

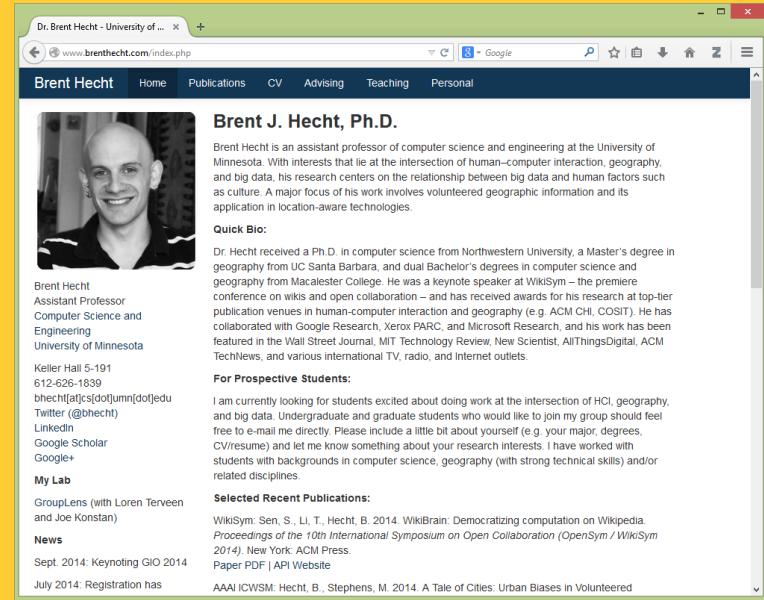
Dr. Brent Hecht

- Born and raised in SF Bay Area
- Bachelor's Degree in Geography and Computer Science (Macalester College)
- Master's Degree in Geography (UC Santa Barbara)
- Ph.D. in Computer Science in 2013 (Northwestern University)



Dr. Brent Hecht

- Spatial computing and social computing
- Volunteered geographic information and its applications
- Information visualization and geographic human-computer interaction



The screenshot shows a computer browser displaying the homepage of www.brenthecht.com/index.php. The page has a dark blue header with the name "Brent Hecht" and navigation links for Home, Publications, CV, Advising, Teaching, and Personal. Below the header is a black and white portrait of a smiling man with short hair. To the right of the portrait is a bio section for "Brent J. Hecht, Ph.D." It states he is an assistant professor at the University of Minnesota, with interests in human-computer interaction, geography, and big data. It highlights his work on volunteered geographic information and location-aware technologies. Below the bio is a "Quick Bio" section, which provides a brief summary of his education and career, mentioning Northwestern University, UC Santa Barbara, and Macalester College. It also notes his work with Google Research, Xerox PARC, and Microsoft Research. A "For Prospective Students" section encourages students to email him directly with their interests and background. At the bottom, there are sections for "Selected Recent Publications" (listing papers from WikiSym 2014 and OpenSym 2014), "News" (mentioning Sept. 2014 keynotes at GIO 2014 and ICWSM 2014), and "My Lab" (GroupLens). There are also links for "Twitter" (@bhecht), "LinkedIn", "Google Scholar", and "Google+".

<http://www.brenthecht.com>
Twitter: @bhecht