

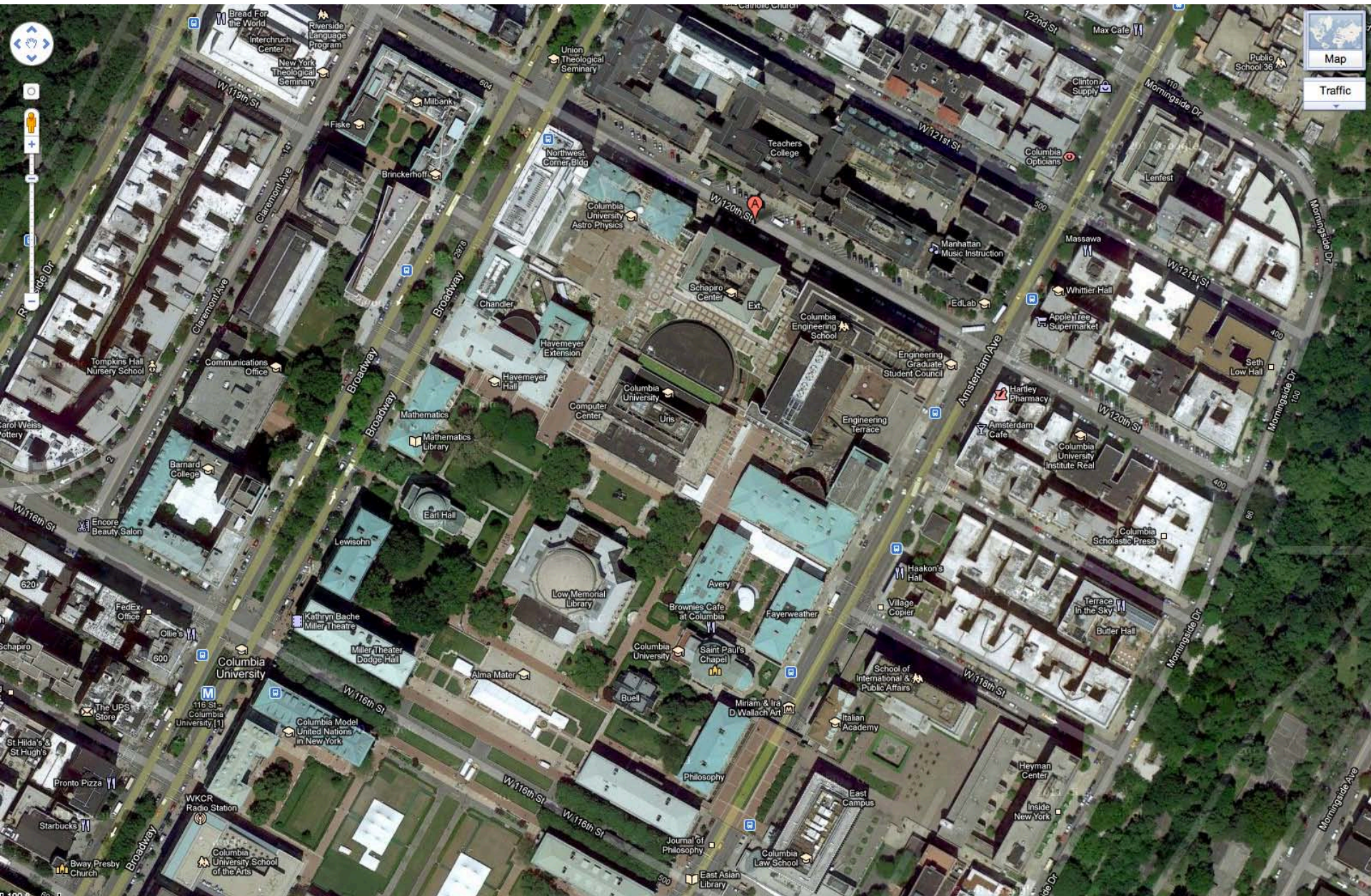
Orientation 2013

Jeffrey Lancaster, Ph.D.

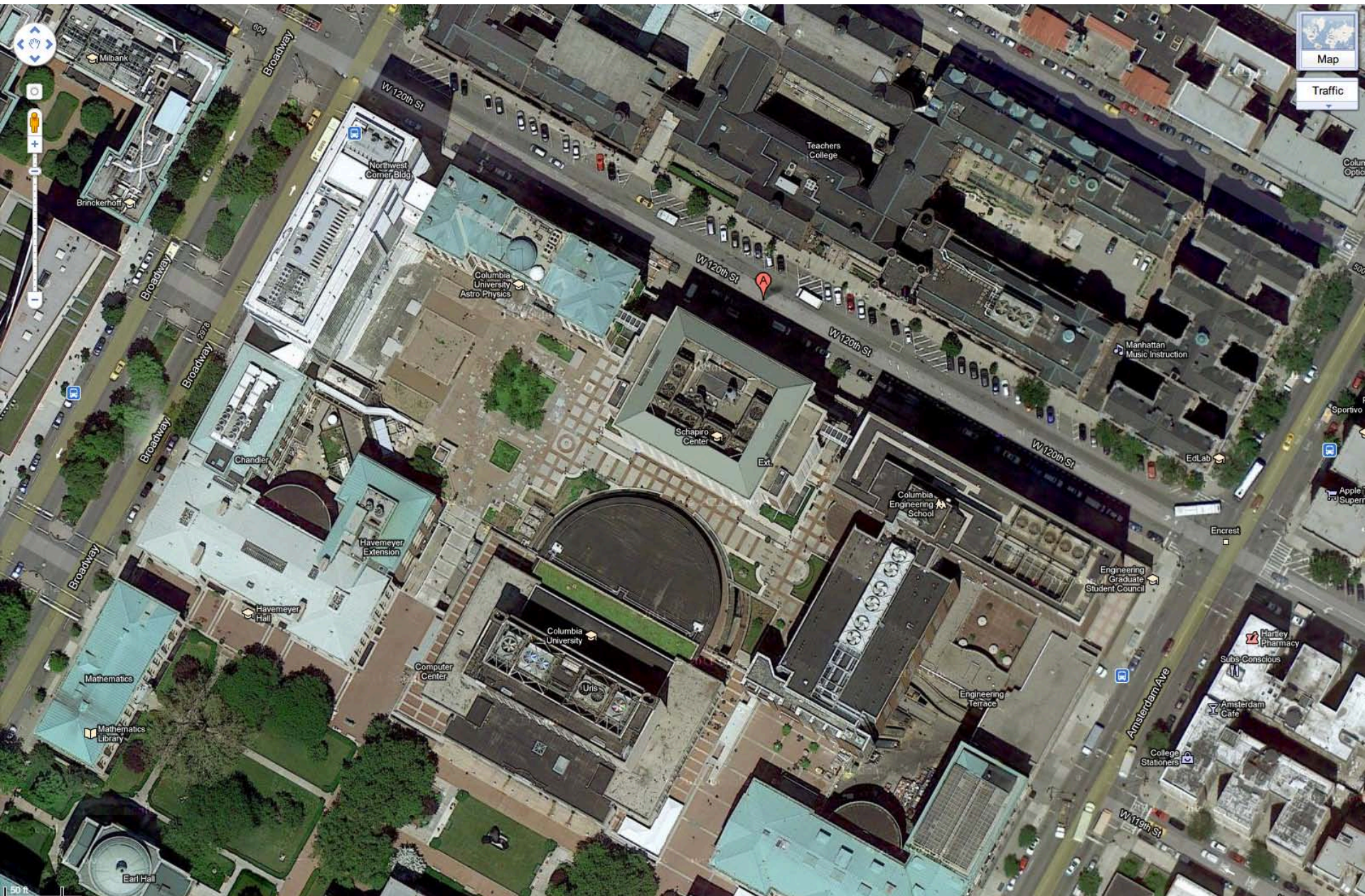
Emerging Technologies Coordinator

jeffrey.lancaster@columbia.edu

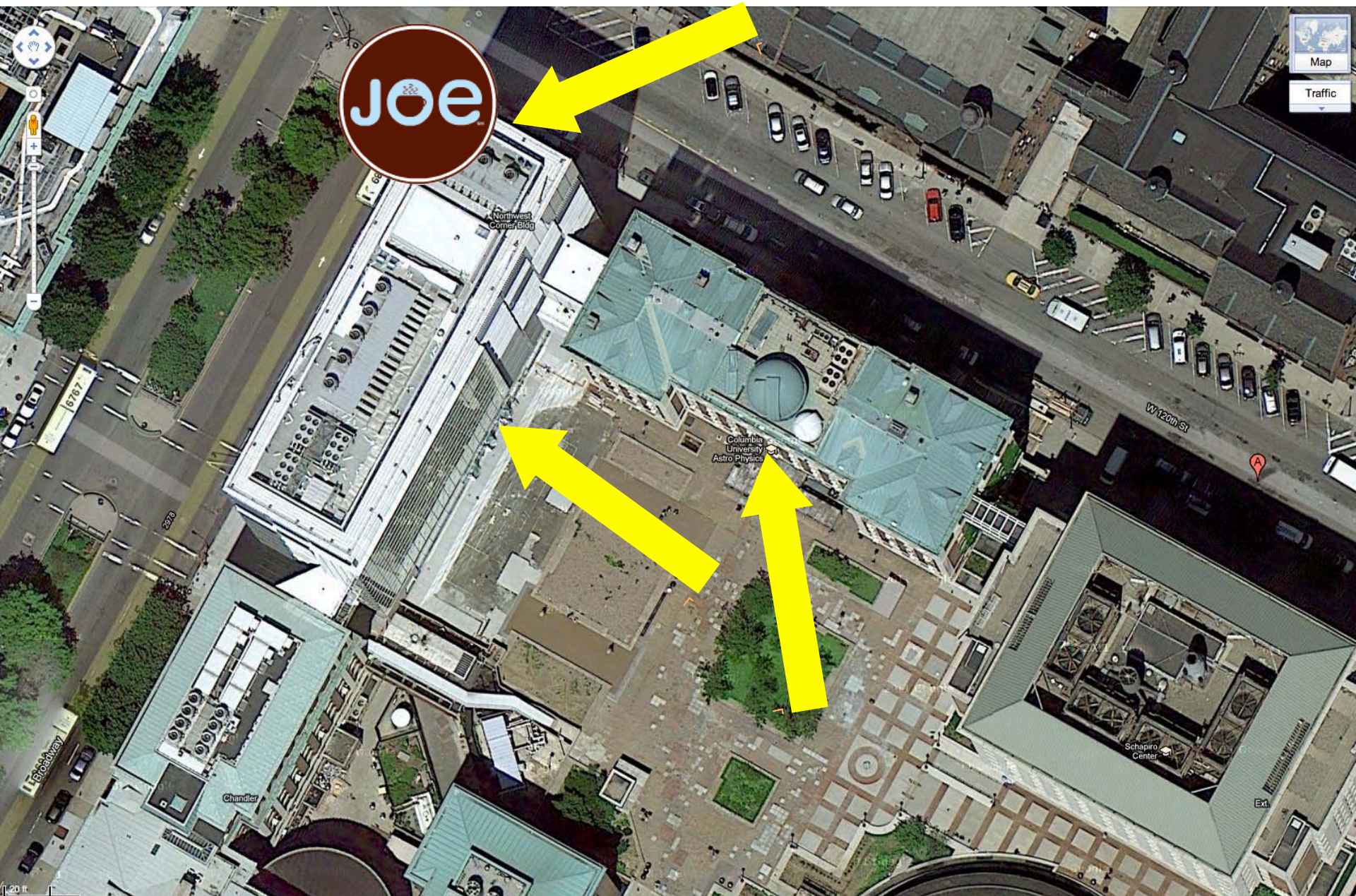
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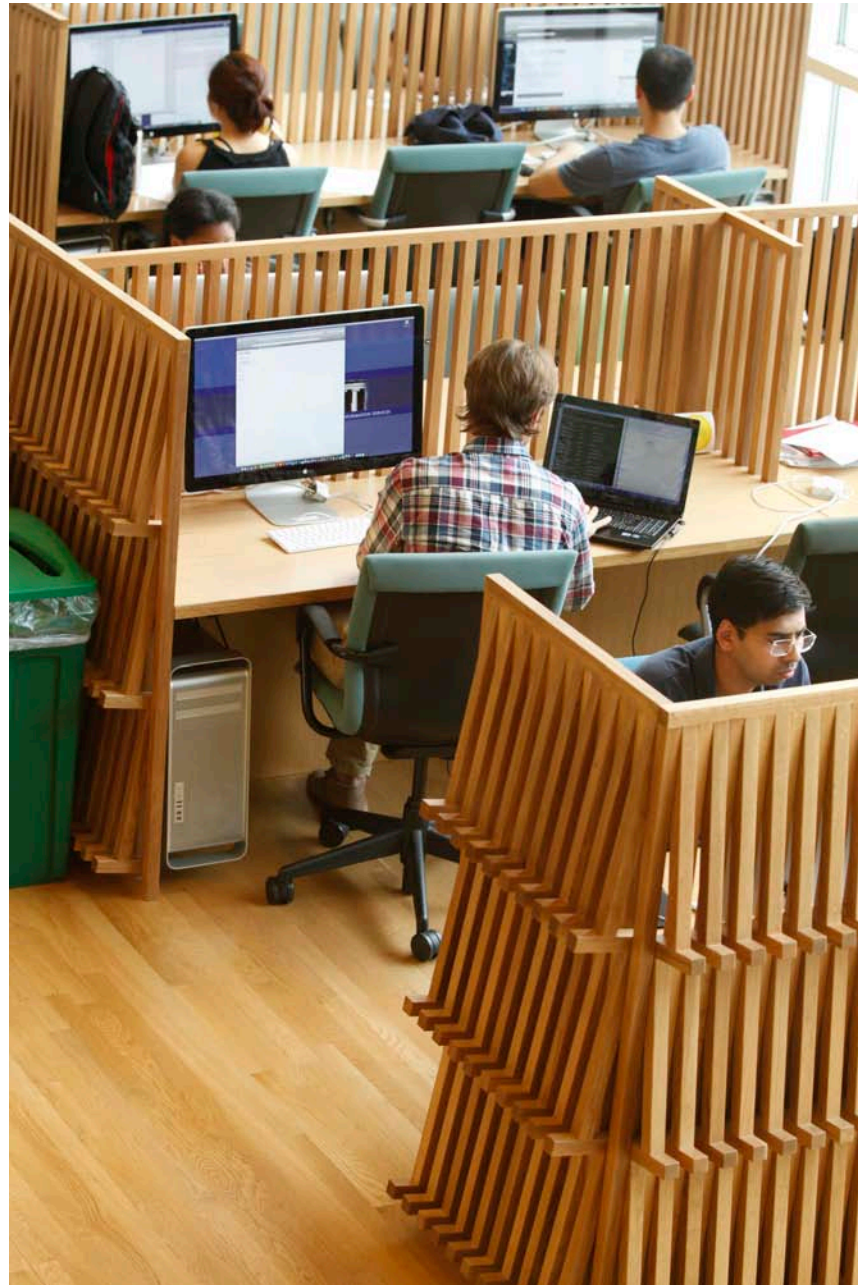
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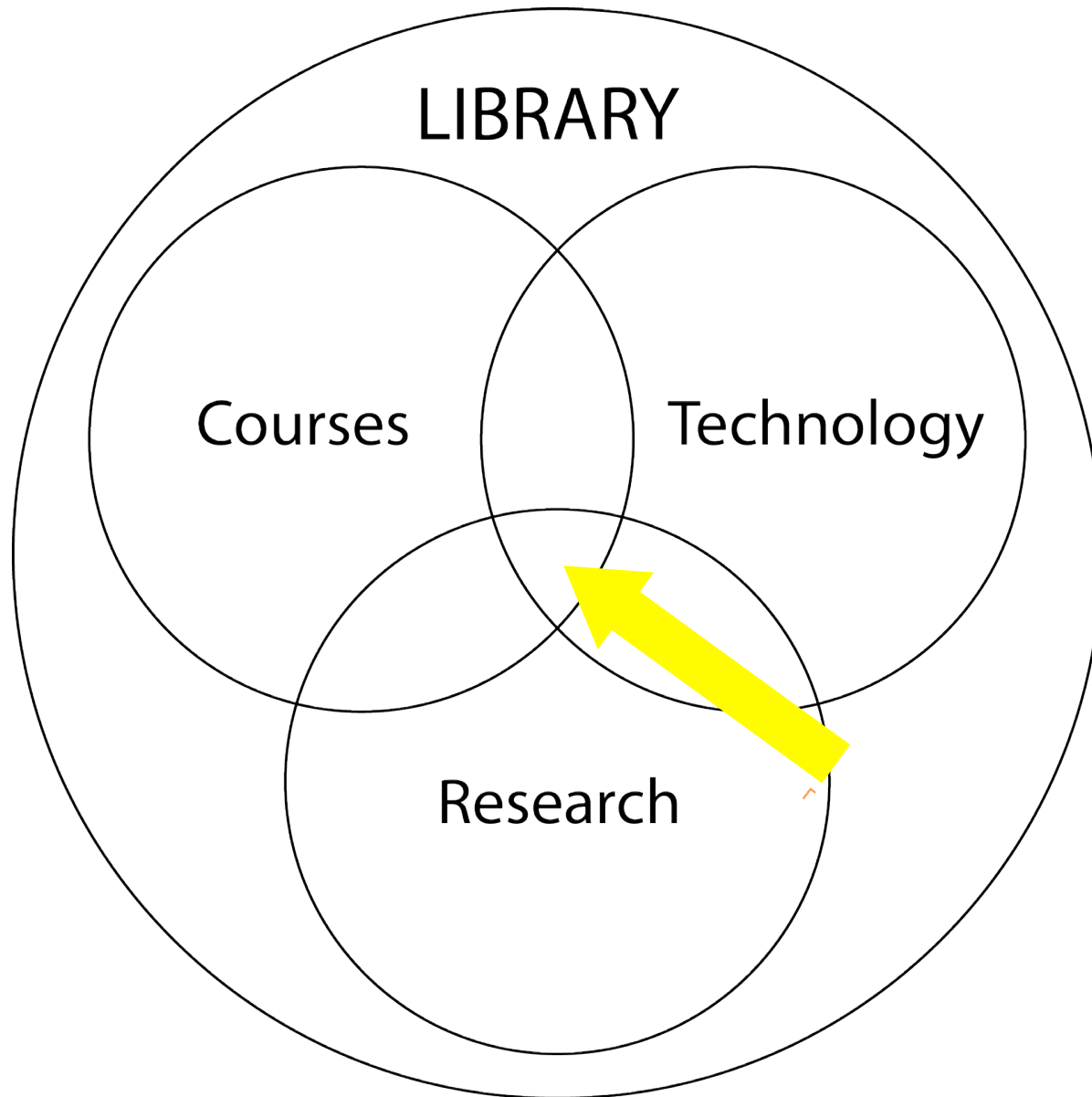
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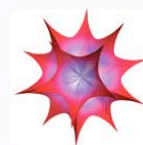
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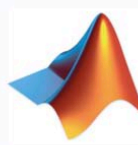
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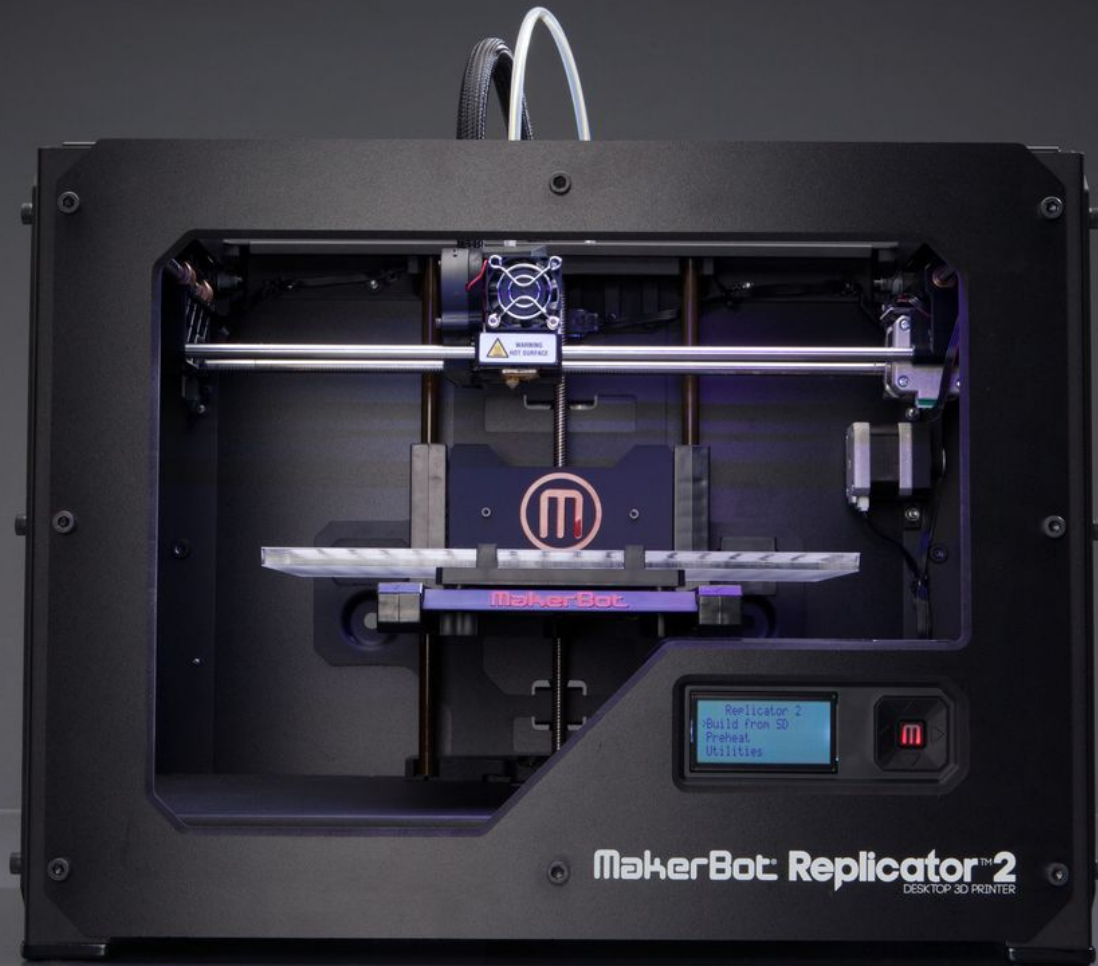
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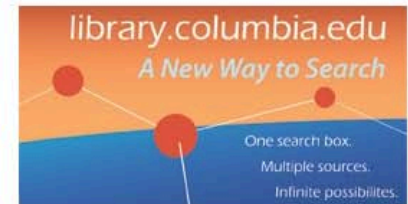
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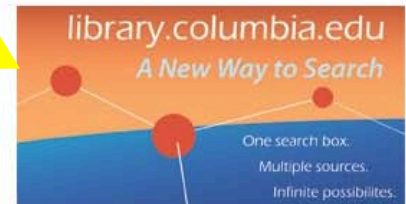
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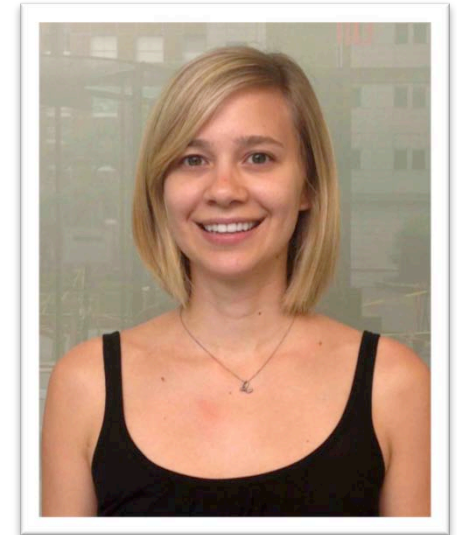
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- Develop a consistent file-naming system for yourself
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- Take advantage of your subject librarian (Ellie Ransom)
- Learn to use the resources, tools provided by the Library
 - e.g. CLIO, databases, InterLibrary Loan (ILL)
- Determine the major journals in your field & set up email alerts, RSS feeds
- Download, install, and begin to use reference management software
 - e.g. EndNote, Mendeley, Papers, etc.
- Download, install, and learn to use the software in your field
- Develop lists of links you often visit
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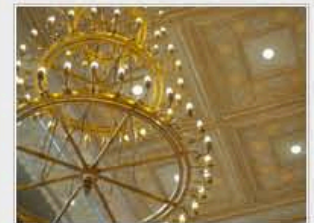
Changes to the Libraries' website and CLIO!

by AMANDA on MAY 31, 2013

On Monday, June 3rd the Libraries' will be launching a new version of CLIO and the Libraries website. For a preview of the new site, see <http://preview-library.cul.columbia.edu/>.

The new version of CLIO – **CLIOBeta** – is now available for testing and use via the Libraries homepage, <http://cliobeta.columbia.edu/>. **CLIOBeta** will become the newest version of **CLIO** on June 3rd. **CLIOBeta** has greater flexibility in subject searching, as elements of the record can be searched and combined in a variety of ways.

This is a crucial time for your [feedback](#) as we progress through the various



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Protecting the grid from the bomb



Gil Zussman and Daniel Blenstock are investigating how the US electric grid could be protected against a nuclear attack. / Photograph by Jörg Meyer

by David J. Craig

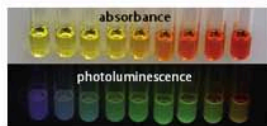
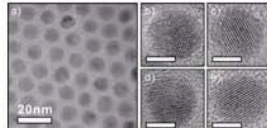
The US electric grid is designed to keep power flowing to customers by almost any means necessary. But its flexibility may prove to be its downfall.

Because the grid allows power plants to send electricity over multiple routes to any destination within a few hundred miles, it has obvious advantages: if one power line fails, a computer will reroute its load to parallel lines so that the lights stay on. The danger is that if those lines become overburdened, a vicious cycle of "load shifting" and line failures can quickly spiral out of control, causing a widespread blackout.

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This Climate Fix Might Be Decades Ahead Of Its Time



Title: Moments in Materials Science: "Nanocrystals Week 1: The Synthetic Challenges of Semiconductor Nanocrystals"

Speaker: Mark Hendricks, Owen Group

When: Thursday, August 15th - 4:30pm

Where: 703 Northwest Corner

Abstract: Semiconducting nanocrystals have been a popular area of study for over 25 years, and commercial products utilizing them have recently started to appear on the market. This talk will discuss the theoretical and practical challenges to synthesizing nanocrystals with desirable properties, and will highlight some specific advances that helped the field understand and overcome these challenges.

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The Lamont-Doherty Core Repository holds one of the world's most unique and important collections of scientific samples from the deep sea—approximately 72,000 meters of sediment cores from every major ocean and sea. It is both an archive of sediment (some terrestrial), rocks and coral from beneath the ocean floor, and an archive of the digital data pertaining to the material.

Department of Astronomy: Public Lecture & Stargazing



Next Event: Friday, August 16, 2013

Film: "Serenity"

Summary: The crew of the space ship Serenity tries to evade an assassin sent to recapture one of their number who is telepathic. Directed by Joss Whedon. (Rated PG-13, 119 min.)

As a complement to our public lecture events during the school year, in the summer we switch to screening science fiction films. Following the film is a short discussion describing the relevant science found in the film with special attention to separating fact from fiction.

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Listen

"If they don't tell you you're crazy, you're not doing something worthwhile," says Peter Eisenberger, co-founder of Global Thermostat, a firm that's building a device to pull carbon dioxide from the air.

(Source: NPR)

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Students Win 'Magic Grants' For New Media Projects



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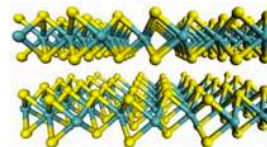
1 week ago f t g+



NASA-backed scientists, led at Columbia by Amber Miller, are aiming a new telescope at a most distant target.

(Source: magazine.columbia.edu)

5 2 weeks ago f t g+



Title: Moments in Materials: "Optical properties of 2D semiconductors"

Speaker: Timothy Berkelbach

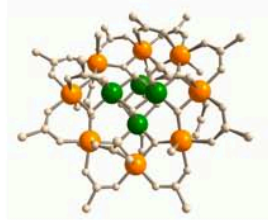
When: Thursday, August 1, 2013 - 4:30pm

Where: 703 Northwest Corner

Over the last three years, transition metal dichalcogenides, such as molybdenum disulfide, have emerged as an atomically thin, semiconducting alternative to metallic graphene. This talk will review the very young history of these materials, much of which was discovered here at Columbia, including their novel optical properties in the monolayer limit.

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2 weeks ago f t g+



Title: Moments in Materials: "Lest We Forget: Molecular Memory"

Speaker: Arun Batra, Venkataraman Group

When: Thursday, August 8 - 4:30pm

Where: 703 Northwest Corner

Abstract: The proposed use of molecules as 'spintronic' devices is nascent compared to the relatively more developed field of molecular electronics. This talk introduces the possible applications of single molecule systems in magnetic memory and spintronics.

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1 1 week ago f t g+

A Shot in the Light



NASA-backed scientists, led at Columbia by Amber Miller, are aiming a new telescope at a most distant target. / Photograph by Asad Aboobaker

by Douglas Quenqua

"It's spectacularly beautiful," she says. "You can see the glaciers and the snow flowing like a river down these big mountains, and you can see icebergs and ice floes, and everything is white, white, white." Miller had come to Antarctica looking for light, but not the kind one sees from a plane. The light she'd come looking for was about 13.3 billion years old, and potentially more revealing, at least to cosmologists, than any other light in the universe.

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The Pickup Artists

What does trash tell us about ourselves?

Anthropologist Robin Nangle put on the uniform and found out

5 2 weeks ago f t g+



Petrochemical America, a collaboration between the artist Richard Misrach and the landscape architect Kate Offit, surveys Cancer Alley in all its imperfections.

(Source: magazine.columbia.edu)

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Orientation 2013

Jeffrey Lancaster, Ph.D.

Emerging Technologies Coordinator

jeffrey.lancaster@columbia.edu