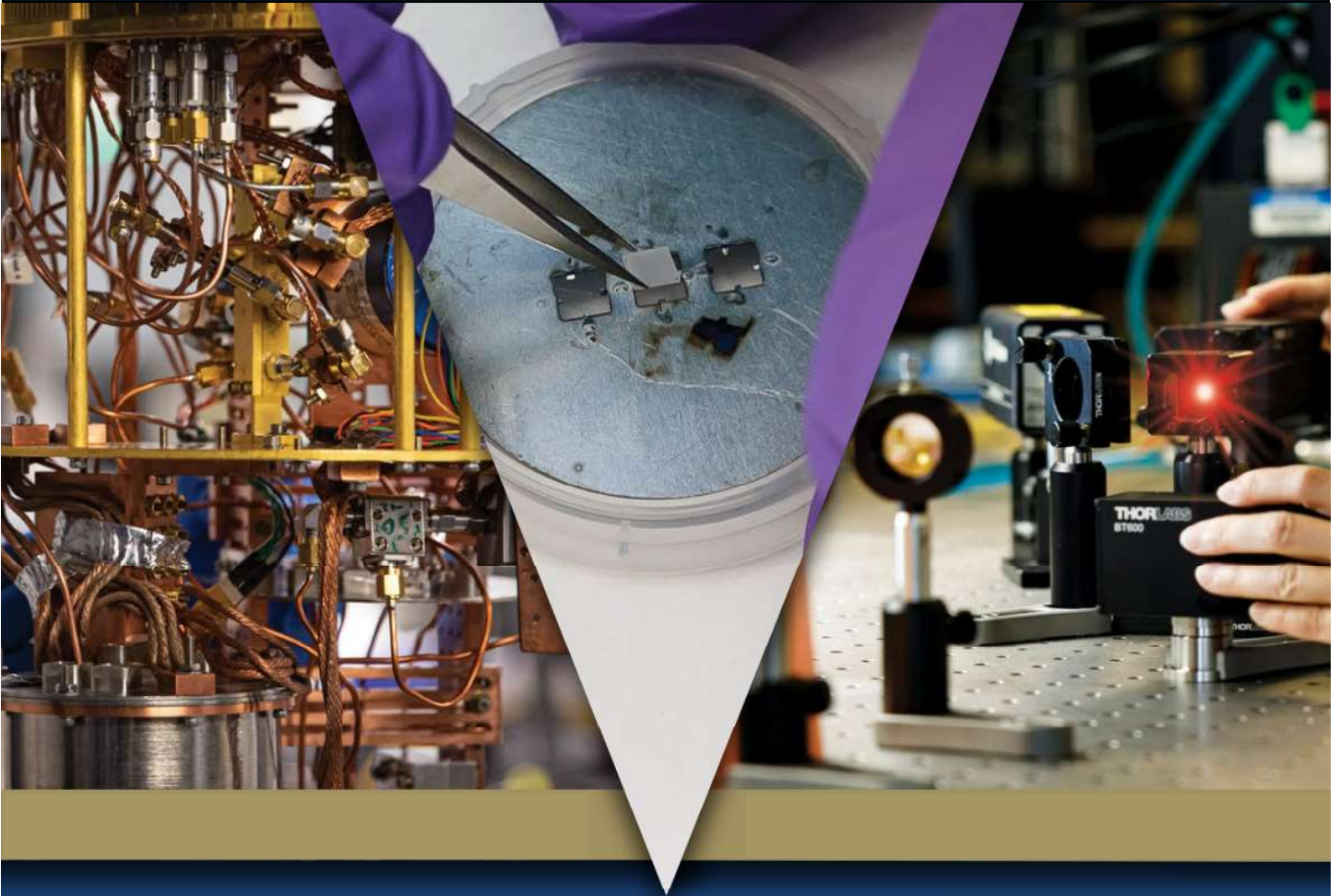


Quantum Information

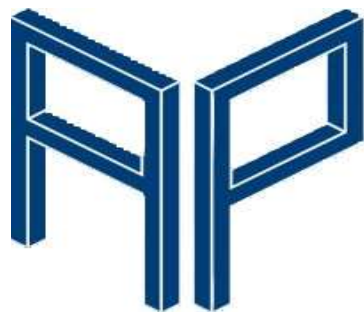
Condensed Matter

Optics



2024 OPEN HOUSE Program

Yale School of Engineering and Applied Science



Yale ENGINEERING

Dept. of Applied Physics

2024 Open House

March 20th - 22nd 2024

(Optional) Wednesday, March 20th 6:30 PM - 8:30 PM Eastern Time

6:30 PM	Welcome Dinner at Zeneli's Student Contact: Kaavya Sahay T: 475.280.0671
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Thursday, March 21st 9:30AM - 8:00PM Eastern Time

9:30 AM	Meet in Hotel Lobby Student Contacts: Kaavya Sahay T: 475.280.0671 Ruidi Zhu T: 203.465.8387
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10:00 AM	Welcome Reception at the Mann Center w/ Continental Breakfast Zoom link: https://yale.zoom.us/j/93655409356
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Subfield Presentations

10:30 AM	Quantum Information Science
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11:00 AM	Condensed Matter
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11:30 AM	Optics
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12:00 Noon	Catered Lunch
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1:00 PM	Guided Main Campus Tour is scheduled to leave from Dunham (10 Hillhouse Ave) at 1pm and will last approx 1hr-1hr15min
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2:00 PM	GSAS Diversity (optional) Recruitment Days
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Lab Tours and Faculty meetings (1-5:45pm)

	Yale West Campus Lab Visit Student Contact: Neel Thakur T: 484.889.1719
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	Becton Lab Visits Student Contact: Wenxin Li T: 203.907.6868 (for building access)
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6:00 PM	Dinner at Mory's with Poster Presentations Student Contacts: Kaavya Sahay T: 475.280.0671 Pei-Ki Tsai T: 203.435.5252
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	Student Arranged Activities
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Friday, March 22nd 8:30 AM - 12:00 PM Eastern Time

8:30 AM	Continental Breakfast at the Mann Center
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	Morning visit to East Rock (optional)
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	Lab Tours & Faculty Meetings (self scheduled)
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Lab Tour/Meetings Schedule

Thursday, March 21st

Group	Time	Location	Contact
Charles Ahn	Discuss with lab contact	Becton 301	Kida Shin email: kida.shin@yale.edu Tel: (475) 414-8319
Logan Wright	12-5	Becton 311	lgwrightlab@gmail.com
Hui Cao	3-6 pm	Becton ground floor (card access needed)	Rohin E. McIntosh rohin.mcintosh@yale.edu 203.980.2839
Sohrab Ismail-Beigi	1-4 pm	Becton 307	sohrab.ismail-beigi@yale.edu
Douglas Stone	Discuss with lab contact	YQI 436	douglas.stone@yale.edu
Yu He	1-4:30pm	Becton 326 (lab) Becton 323 (student office)	tyler.werner@yale.edu wenxin.li@yale.edu
Owen Miller	1-2 & 3-6pm	Becton 313	owen.miller@yale.edu
Luigi Frunzio	3-4pm	Becton 4th floor	luigi.frunzio@yale.edu 203-465-8877
Shruti Puri	1-2:30pm	YQI 407	Shraddha Singh shraddha.singh@yale.edu
Michael Hatridge	Contact for appointment	Becton 305	mhatridge@gmail.com
Aleksander Kubica	Contact for appointment	YQI 409	aleksander.kubica@yale.edu
Peter Rakich	Discuss with lab contact	Becton 414	naijun.jin@yale.edu peter.rakich@yale.edu
Diana Qiu	2-6 pm	Becton 209	diana.qiu@yale.edu
Mengxia Liu	2-4 pm	ESI-II A176	mengxia.liu@yale.edu
Eduardo da Silva Neto	2-4 pm	ESI-II A151	eduardo.dasilvaneto@yale.edu
Peijun Guo	2-4 pm	ESI-II A173	peijun.guo@yale.edu

Lab Tour/Meetings Schedule

Friday, March 22nd

Group	Time	Location	Contact
Charles Ahn	Discuss with lab contact	Becton 301	Kidae Shin email: kidae.shin@yale.edu Tel: (475) 414-8319
Logan Wright	12-5:45	Becton 311	lgwrightlab@gmail.com
Hui Cao	Discuss with lab contact	Becton ground floor (card access needed)	Rohin E. McIntosh rohin.mcintosh@yale.edu 203.980.2839
Sohrab Ismail-Beigi	9am-2pm	Becton 307	sohrab.ismail-beigi@yale.edu
Douglas Stone	Discuss with lab contact	YQI 436	douglas.stone@yale.edu
Yu He	9:30am -10am 11:20-noon	Becton 326 (lab) Becton 323 (student office)	tyler.werner@yale.edu wenxin.li@yale.edu
Owen Miller	Discuss with lab contact	Becton 313	owen.miller@yale.edu
Luigi Frunzio	9am-4pm by appointment	Becton 4th floor	203-465-8877 luigi.frunzio@yale.edu
Michael Hatridge	Contact for appointment	Becton 305	mhatridge@gmail.com
Peter Rakich	Discuss with lab contact	Becton 414	naijun.jin@yale.edu peter.rakich@yale.edu
Mengxia Liu		ESI-II A176	mengxia.liu@yale.edu
Steve Girvin	1-5pm	YQI 403	steven.girvin@yale.edu

Important Contacts & Key Information

Important Contacts

Visitor Center/ Tour Guide	(203) 432-2300
Key Administrative Contact	
Alexander Bozzi	(203) 432-9842; alexander.bozzi@yale.edu
Faculty Hosts	
Yu He	yu.he@yale.edu
Aleksander Kubica	aleksander.kubica@yale.edu
Shruti Puri	shruti.puri@yale.edu
Logan Wright	logan.wright@yale.edu

Yale Shuttle Information

West Campus Shuttle: Departures from the key points of lot 22 and building 400 for green line and 333 Cedar and building 400 for purple line will be at half hour intervals. Green line will do a loop into east rock both at morning and evening commute hours. Purple line will continue to have dedicated stops at both Union Station and West Haven station throughout the morning. Return service to the train stations will continue to be on demand.

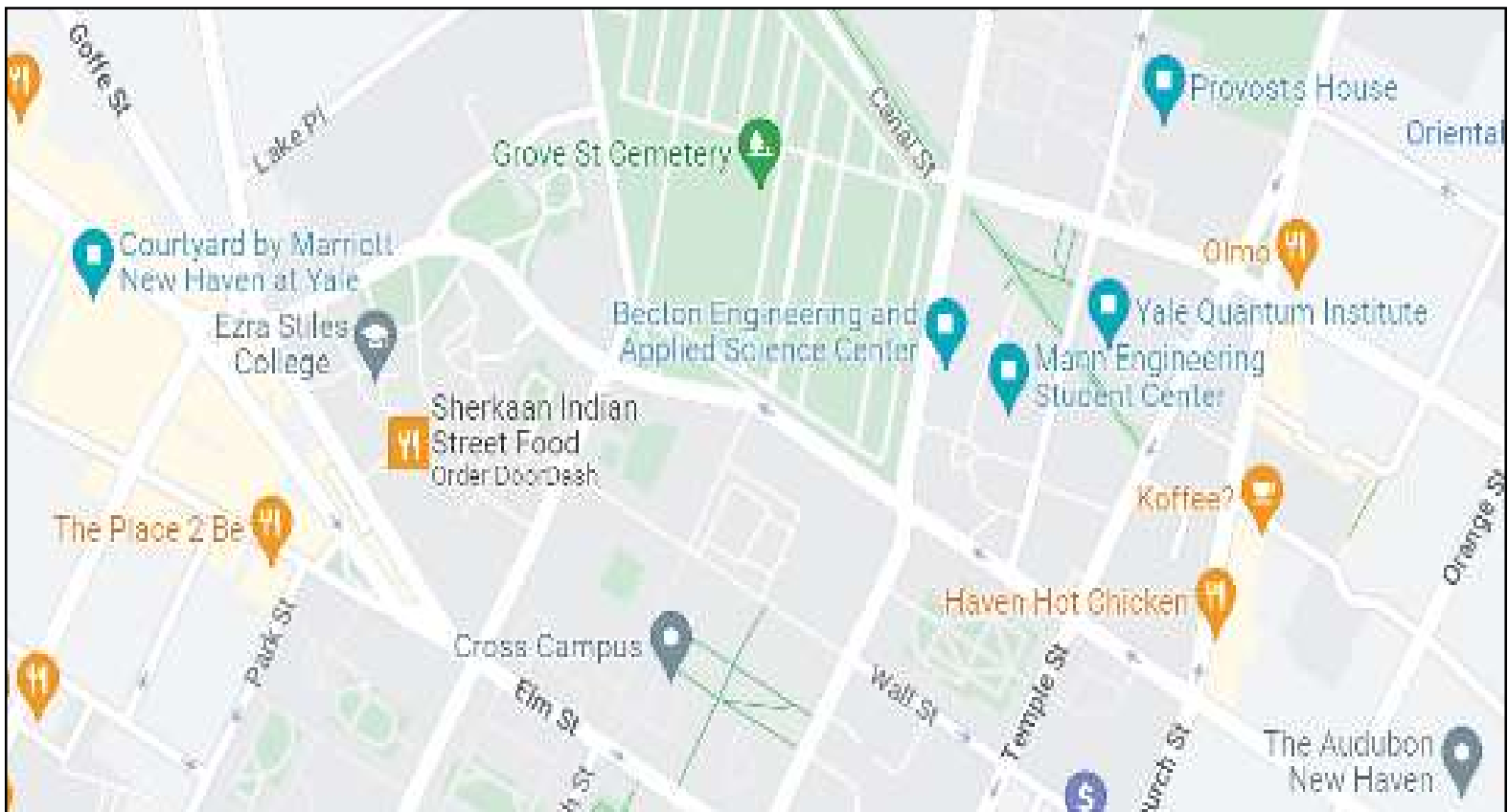
-You will need to be accompanied by someone with a Yale ID to ride the Yale Shuttle.

Shuttle tracking: <https://yale.downtownerapp.com/routes>

In the event of an emergency, please dial 911

Relevant Addresses

- **Mann Engineering Student Center (Mann Center)**
107 Dunham Laboratory, 10 Hillhouse Ave, New Haven, CT 06511
- **Becton Engineering & Applied Science Center (BCT)**
15 Prospect St, New Haven, CT 06511
- **Yale Quantum Institute (YQI)**
17 Hillhouse Ave, New Haven, CT 06511
- **Yale Provost's House**
35 Hillhouse Ave, New Haven, CT 06511
- **Zeneli's Pizzeria**
138 Wooster St, New Haven, CT 06511
- **Courtyard Marriot at Yale**
30 Whalley Ave, New Haven, CT 06511
- **Mory's**
306 York St, New Haven, CT 06511



Faculty Directory

Faculty Member	Email	Office	Lab
Charles Ahn	charles.ahn@yale.edu	Becton 303	Becton 224, 226, 302, 304
Hui Cao	hui.cao@yale.edu	Becton 309	Becton 012, 014, 016
Yu He	yu.he@yale.edu	Becton 327	Becton 326
Sohrab Ismail-Beigi	sohrab.ismail-beigi@yale.edu	Becton 307	
Owen Miller	owen.miller@yale.edu	Becton 313	
Vidvuds Ozolins	vidvuds.ozolins@yale.edu	Out of office	
Shruti Puri	shruti.puri@yale.edu	YQI 407	
Peter Rakich	peter.rakich@yale.edu	Becton 407	Becton 018, 414
Robert Schoelkopf	robert.schoelkopf@yale.edu	Out of office	
Douglas Stone	douglas.stone@yale.edu	YQI 436	
Logan Wright	logan.wright@yale.edu	Becton 311	
Michael Hatridge	mhatridge@gmail.com	Becton 305	
Aleksander Kubica	aleksander.kubica@yale.edu	YQI 409	
Mengxia Liu	mengxia.liu@yale.edu	ESI-II A176	
Peijun Guo	peijun.geo@yale.edu	YH 575 ESI-II A173	
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Cong Su	cong.su@yale.edu	Becton 201 ESI-II A135	
Diana Qiu	diana.qiu@yale.edu	Becton 209 ESI-II A145	
Michel Devoret	michel.devoret@yale.edu	Becton 413	
Steve Girvin	steven.girvin@yale.edu	YQI 403	

Poster Session Index

Thursday, March 21st

1.	Tom Connolly (Devoret Group) Non-demolition transmon measurement using a high frequency readout resonator
2.	Naijun Jin (Rakich Group) Wafer-Level Fabrication and Integration of Fabry-Pérot Resonators
3.	Qile Su (Puri Group) Modeling the spin-flip rate for an Ising spin encoded in a Kerr-nonlinear resonator
4.	Wenxin Li (He Group) Role of Fe intercalation on antiferromagnet FeNbS_2
5.	Max Schafer (Devoret Group) Exploring Kerr-cat qubits across Parameter space and progress towards a bias-preserving CNOT
6.	Zheting Jin (Ismail-Beigi Group) Bond-dependant slave-particle cluster theory based on density matrix expansion
7.	Kidae Shin (Ahn Group) Molecular Beam Epitaxy-grown Transition Metal Oxides for Rare Earth Ion Qubits
8.	Aniket Maiti (Schoelkopf Group) High fidelity parametric beamsplitting between bosonic quantum storages

Favorite New Haven Spots



East Rock Park

41 Cold Spring St, New Haven, CT 06511

East Rock was formed about 200 million years ago as the continents were in the process of moving away from each other.

Excerpt from <https://www.ctvisit.com/listings/east-rock-park>



Lighthouse Point Park

2 Lighthouse Rd, New Haven, CT 06512

Swimming, natural history displays, nature trails, picnic grove, bird sanctuary and an antique carousel are highlights of this 82-acre park on Long Island Sound. Season runs: April 1-November 1. Gates open 7 a.m.-sunset year round.

Excerpt from <https://www.ctvisit.com/listings/lighthouse-point-park>



Historic Grove Street Cemetery

227 Grove Street, New Haven CT 06511

The New Haven, Connecticut, burial ground, opened 1796, is the oldest cemetery in the nation designed as a “city of the dead,” with named avenues and cross streets. A National Historic Landmark, it is also the first chartered burial ground in the United States and the first to be arranged in family lots.

Excerpt from <https://www.grovestreetcemetery.org/>



Marsh Botanical Gardens

265 Mansfield Street, New Haven, CT 06511

Sitting on eight acres, with six greenhouses comprising around a third of an acre under glass, Marsh Botanical Garden offers support for researchers, faculty and students at Yale, as well as an informative and eye-catching experience for visitors. The outdoor and natural areas of the Garden is open from 7am to sunset every day.

Excerpt from <https://marshbotanicalgarden.yale.edu/>

Favorite New Haven Spots



Yale University Art Gallery

1111 Chapel Street (at York Street) New Haven, Connecticut

Founded in 1832, the Gallery is the oldest university art museum in America. Today, it is a center for teaching, learning, and scholarship and is a preeminent cultural asset for Yale University, the wider academic community, and the public. The museum is open to all, free of charge.

Excerpt from <https://artgallery.yale.edu/>



The Beinecke Rare Book and Manuscript Library

121 Wall St, New Haven, CT 06511

The Beinecke Rare Book and Manuscript Library provides access to one of the world's largest collections of rare books, manuscripts, and related materials.

Public visitors are welcome in the Beinecke Library exhibition hall on Thursday, 9am – 7pm; Friday, 9am – 5pm

Excerpt from <https://beinecke.library.yale.edu/>



Edgerton Park

75 Cliff St, New Haven, CT 06511

A green space jewel on the Hamden/ New Haven border, Edgerton Park has been a part of the New Haven Parks system since 1965.

Excerpt from <http://www.edgertonpark.org/>



The Cushing Center

333 Cedar St, New Haven, CT 06510

The Cushing Brain Tumor registry is an immense archival collection of over 2,200 case studies which includes human whole brain specimens, tumor specimens, microscopic slides, notes, journal excerpts and over 15,000 photographic negatives dating from the late 1800's to 1936.

Excerpt from <https://library.medicine.yale.edu/cushingcenter>

Documents for Reimbursement

- Visitors who are U.S. citizens will need to fill out the W-9 form.
- International students, regardless of where they are attending school, need to fill out the W-8BEN and the International Information Form (IIF), and provide a copy of the passport face page and visa page.
- Please keep all itemized receipts received during your visit
- At the end of your visit all paperwork should be sent to the administrative contact you've been assigned.
- More detailed instructions will be given during the Welcome Reception

Graduate Student Volunteers

Materials		
Tyler Werner	203.275.5620	tyler.werner@yale.edu
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Zheting Jin		zheting.jin@yale.edu
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Kaavya Sahay	475.280.0671	kaavya.sahay@yale.edu
Neel Thakur	484.889.1719	neel.thakur@yale.edu
Optics		
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Haoyu Wei	475.439.0606	haoyu.wei@yale.edu
Jay Zou	872.806.8821	jay.zou@yale.edu