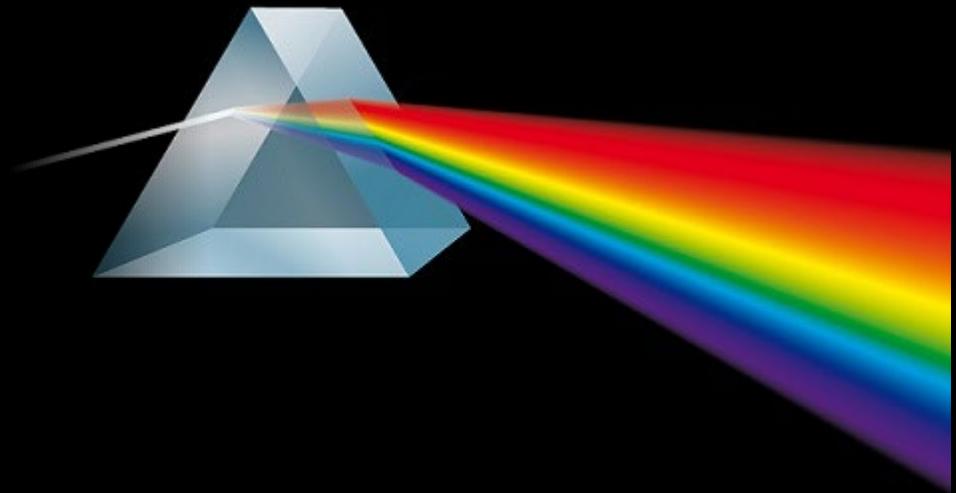
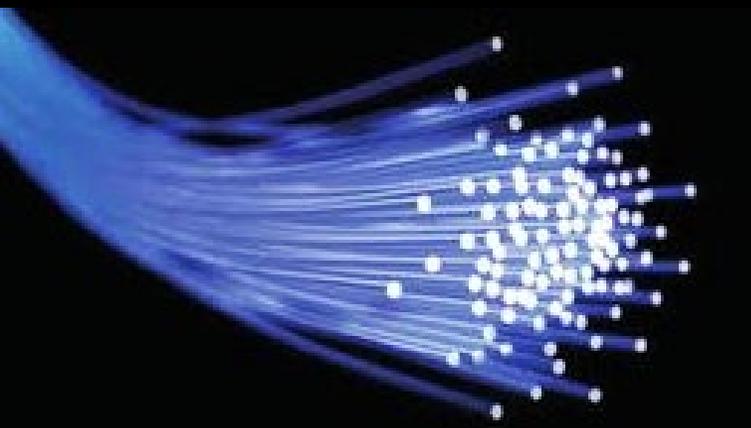


# MICRO-424 Optics Laboratories II

Ye Pu & Demetri Psaltis



# COVID-19 Safety

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## **RULES AT THE PERSONAL LEVEL (UNCHANGED)**

- A face mask must be worn at all time in the lab
- Hands must be sanitized first thing upon entry to the lab
- Anything to be in contact with the eye (eye pieces of a microscope, view finder of a camera) must be cleaned with 70% ethanol
- Eating and drinking are strictly prohibited

# COVID-19 Safety

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## **RULES AT THE SOCIAL LEVEL (RELAXED)**

- No more than 2~3 groups (6~9 persons TA included) are allowed each timeslot
- Name logging no longer required
- Ventilation must be ON during the entire stay in the lab
- Stay at home if you have symptoms and call for a doctor's visit
- Maintain a minimum 1.5-meter interpersonal distance whenever possible

# COVID-19 Safety

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## **IF YOU ARE TESTED POSITIVE ...**

- Stay at home and do not come to work on campus!
- Comply strictly with the public-health authorities' instructions
- Notify your supervisor
- Reply to the public-health contact tracing survey

# MICRO-423 Optics Laboratories I

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## TP MODULES

- Unique course focused on experimental skills
- 17 TP modules available in total
- 8 active TPs at present
- 7 TAs enrolled in spring 2021
- Students can choose preferred TPs
- Assignments of TAs will be announced soon

# MICRO-423 Optics Laboratories I

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## COURSE SETTING

- TPs run on a flexible schedule over all weekdays
- You will work in groups of 2
- Each group will do 4 TPs out of 8 available TPs
- Each experiment runs in 2 sessions
- Each session lasts 4 hours
- You must prepare yourself before the TP start
- You must take lab notes
- You must deliver a report 2 weeks after finishing the TP

# MICRO-423 Optics Laboratories I

**IN RESEARCH**

**RAW DATA**

**POLISHED STORY**



**IN TPS**



**“Termites ate my data!”**

# Grade Evaluation

## ACCOUNTING

- All components: 1-10 points
- Final score: weighted average of all components
- Preparedness: prelab questions (10%)
- Experimental skills + quality of work (30%)
- Reports + lab notes (60%)
- Extra points (10%)
- Full score: 6

## TIMING

- Report/lab note due two weeks after TP completion
- Timely submission will receive TA feedback
- No feedback for late submissions
- Late submissions receive 1 point penalty

# About the Report

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## JOURNAL-STYLE REPORT

- **Introduction:** purpose, background, theory, overview
- **Methods:** details and specifics of what was done
- **Results:** presentation of data in
- **Discussion:** issues observed, source of error, accuracy analysis
- **Conclusion:** what was found from the data
- **References:** claims not backed by data (books, papers, lab manuals)

## PURPOSE

- Collaboration skills
- Technical communication skills

# Unexpected Events

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## Unexpected events always happen in experiments

- **Equipment malfunction**
  - Report the event to TA and me
  - Perform theoretical calculations based on TP requirements
  - Use independent analysis rather than replicate the TP manual
- **Data loss**
  - Retaking data highly encouraged
  - If not possible, perform theoretical calculations
  - Legitimate reasons: no available timeslot, COVID-19 considerations
  - Prior approval required