

2025 Tsinghua Spring School on Cryo-ET with Dynamo Schedule

Day 1: Sunday, March 2

The Opening (Reception Hall, Main Building, THU, 清华大学主楼接待厅)	
11:00-15:00	Check in
16:00 – 16:30	Opening Ceremony: Hongwei Wang & Daniel Castaño Díez Chair: Sai Li
16:30 – 17:15	Radostin Danev (The University of Tokyo) Parallel cryo-electron tomography and beyond
18:30 – 20:30	Welcoming Gala Dinner with Entertainments <i>5th Floor, Grand Ballroom, Wenjin Hotel Beijing (文津国际酒店 5 层阳光厅)</i>

Day 2: Monday, March 3

The Morning Lectures (Reception Hall, Main Building, THU, 清华大学主楼接待厅)	
08:30 – 08:45	Discussion Leader: Ping Zhu
08:45 – 09:30	Daniel Castaño Díez (Biofisika Institute) Towards automated structure determination of in situ proteins through cryo electron tomography: the Dynamo software package
09:30 – 09:40	<i>Group Photo</i>
09:40 – 10:10	<i>Poster & Coffee Break</i>
10:10 – 10:55	Gregor Weiss (ETH Zürich) Imaging bacteria across scales - from communication to piracy
10:55 – 11:40	William Wan (Vanderbilt University) Cryo-ET Image Processing in TOMOMAN and STOPGAP
11:40 – 13:30	<i>Lunch & Break</i> <i>2nd Floor, Guan Chou Yuan Canteen, THU (清华大学观畴园餐厅 2 层)</i>
The Afternoon Practice	
13:30 – 15:30	Dynamo Demo & Practice: Daniel Castaño & Sai Li & Tutors <i>Hands-on Practice: Room E109, Biomedicine Building, THU (清华大学生物医学馆 E109 报告厅)</i> <i>Lectures-Only: Reception Hall, Main Building, THU (清华大学主楼接待厅)</i>
15:30 – 16:00	<i>Coffee Break & Poster Exhibition</i>
16:00 – 17:30	Dynamo Demo & Practice: Daniel Castaño & Sai Li & Tutors <i>Hands-on Practice: Room E109, Biomedicine Building, THU (清华大学生物医学馆 E109 报告厅)</i> <i>Lectures-Only: Reception Hall, Main Building, THU (清华大学主楼接待厅)</i>



17:30 – 19:00	<i>Dinner & Break</i> <i>2nd Floor, Guan Chou Yuan Canteen, THU (清华大学观畴园餐厅 2 层)</i>
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The Senior Investigator Talks (Reception Hall, Main Building, THU, 清华大学主楼接待厅)	
19:00 – 19:05	Discussion Leader: Liang Xue
19:05 – 19:20	Meijing Li (Shenzhen Medical Academy of Research and Translation) Visualizing stereocilia in cochlear hair cell
19:20 – 19:35	Yutong Song (Tsinghua University) Cryo-ET of IgG bivalent binding on SARS-CoV-2 provides structural basis for antibody avidity
19:35 – 19:50	Yanan Zhu (Zhejiang University) Structural basis for HIV-1 capsid adaption to rescue IP6-packaging deficiency

The Poster Session (Reception Hall, Main Building, THU, 清华大学主楼接待厅)	
19:50 – 20:10	Poster Flash Talk Discussion Leader: Gregor Weiss
20:10 – 21:30	Poster Session with Refreshments

Day 3: Tuesday, March 4

The Morning Lectures (Reception Hall, Main Building, THU, 清华大学主楼接待厅)	
08:30 – 08:45	Discussion Leader: Fei Sun
08:45 – 09:30	Beata Turoňová (Max Planck Institute of Biophysics) Contextual analysis for in situ cryo electron tomography
09:30 – 10:00	<i>Poster & Coffee Break</i>
10:00 – 10:40	Qiang Guo (Peking University) Structure and Topography of the Synaptic V-ATPase
10:40 – 11:10	Xiaojun Huang (Institute of Biophysics, CAS) Cryo tomography data collection service in IBP
11:10 – 11:25	Thermo Fisher (Sponsor)
11:25 – 11:40	Dell (Sponsor)
11:40 – 13:30	<i>Lunch & Break</i> <i>2nd Floor, Guan Chou Yuan Canteen, THU (清华大学观畴园餐厅 2 层)</i>
The Afternoon Practice	



13:30 – 15:30	Dynamo Demo & Practice: Daniel Castaño & Sai Li & Tutors <i>Hands-on Practice: Room E109, Biomedicine Building, THU (清华大学生物医学馆E109 报告厅)</i> <i>Lectures-Only: Reception Hall, Main Building, THU (清华大学主楼接待厅)</i>
15:30 – 16:00	<i>Coffee Break & Poster Exhibition</i>
16:00 – 17:30	Dynamo Demo & Practice: Daniel Castaño & Sai Li & Tutors <i>Hands-on Practice: Room E109, Biomedicine Building, THU (清华大学生物医学馆E109 报告厅)</i> <i>Lectures-Only: Reception Hall, Main Building, THU (清华大学主楼接待厅)</i>
17:30 – 19:00	<i>Dinner & Break</i> <i>2nd Floor, Guan Chou Yuan Canteen, THU (清华大学观畴园餐厅2 层)</i>
19:00 – 21:00	Dynamo Demo & Practice: Daniel Castaño & Tutors <i>Hands-on Practice: Room E109, Biomedicine Building, THU (清华大学生物医学馆E109 报告厅)</i> <i>Lectures-Only: Reception Hall, Main Building, THU (清华大学主楼接待厅)</i>

Day 4: Wednesday, March 5

The Morning Lectures (Reception Hall, Main Building, THU, 清华大学主楼接待厅)	
08:30 – 08:45	Discussion Leader: Ning Gao
08:45 – 09:30	Benoît Zuber (University of Bern) CryoVesNet: A dedicated framework for synaptic vesicle segmentation in cryo-electron tomograms
09:30 – 10:00	<i>Poster & Coffee Break</i>
10:00 – 10:45	Tao Ni (The University of Hong Kong) Molecular Architecture of Coronavirus Double Membrane Vesicle Pore complex
10:45 – 11:30	Sai Li (Tsinghua University) FlyTomo: A streamlined tool for on-the-fly cryo-ET data processing
11:30 – 13:30	<i>Lunch & Break</i> <i>2nd Floor, Guan Chou Yuan Canteen, THU (清华大学观畴园餐厅2 层)</i>
The Afternoon Practice	
13:30 – 15:30	Dynamo Demo & Practice: Daniel Castaño & Sai Li & Tutors <i>Hands-on Practice: Room E109, Biomedicine Building, THU (清华大学生物医学馆E109 报告厅)</i> <i>Lectures-Only: Reception Hall, Main Building, THU (清华大学主楼接待厅)</i>
15:30 – 16:00	<i>Coffee Break</i>
16:00 – 17:30	Dynamo Demo & Practice: Daniel Castaño & Sai Li & Tutors <i>Hands-on Practice: Room E109, Biomedicine Building, THU (清华大学生物医学馆E109 报告厅)</i> <i>Lectures-Only: Reception Hall, Main Building, THU (清华大学主楼接待厅)</i>



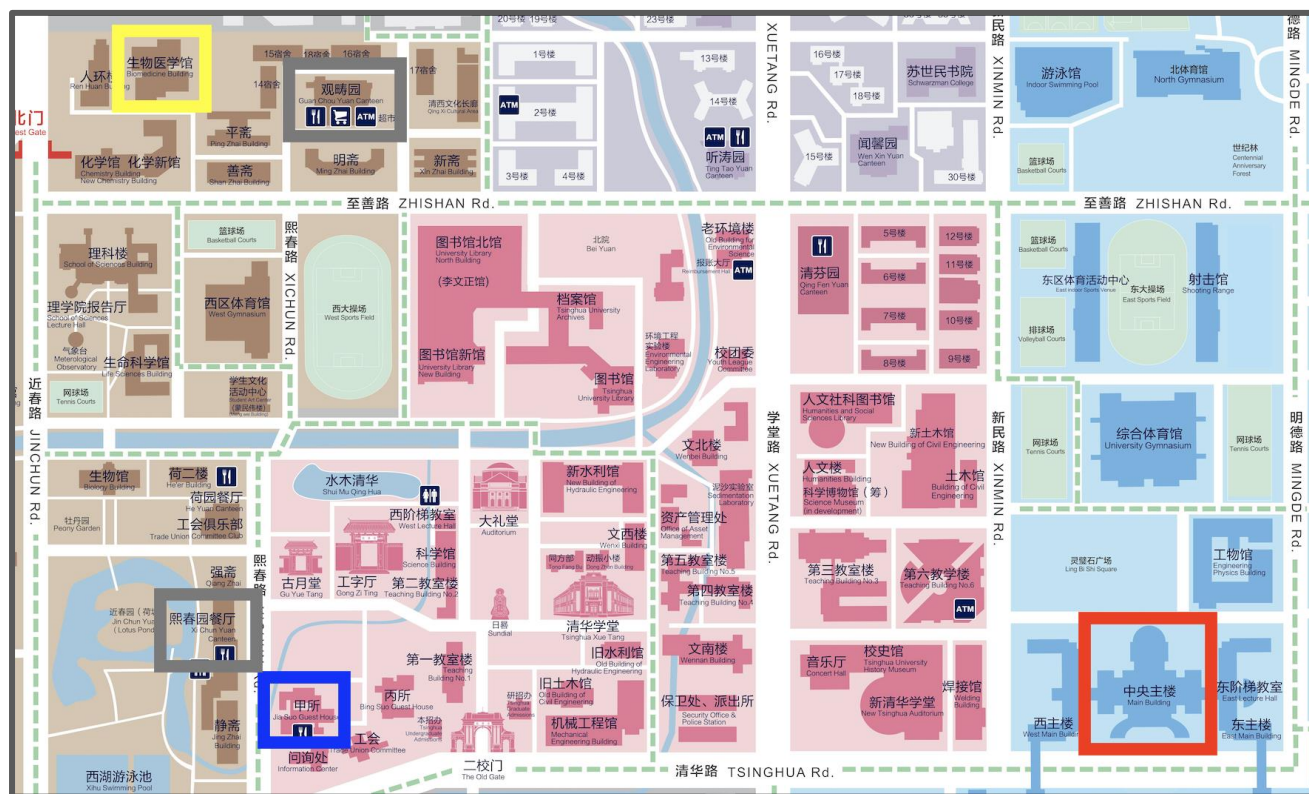
17:30 – 19:00	<i>Dinner & Break</i> <i>2nd Floor, Guan Chou Yuan Canteen, THU (清华大学观畴园餐厅 2 层)</i>
19:00 – 21:00	Dynamo Demo & Practice: Daniel Castaño & Tutors <i>Hands-on Practice: Room E109, Biomedicine Building, THU (清华大学生物医学馆 E109 报告厅)</i> <i>Lectures-Only: Reception Hall, Main Building, THU (清华大学主楼接待厅)</i>

Day 5: Thursday, March 6

The Morning Lectures (Reception Hall, Main Building, THU, 清华大学主楼接待厅)	
08:30 – 08:45	Discussion Leader: Xiaojie Zhang
08:45 – 09:30	Carlos Óscar Sánchez Sorzano (CNB-CSIC) Use of Deep learning in Single Particle Analysis by CryoEM
09:30 – 10:00	<i>Poster & Coffee Break</i>
10:00 – 10:45	Ivan Viola (KAUST) Web-Based Cryo-ET Analysis and Visualization Platform
10:45 – 11:30	Xueming Li (Tsinghua University) HELIS: Accurate helical parameter estimation and in-situ structures of helical assemblies
11:30 – 13:30	<i>Lunch & Break</i> <i>2nd Floor, Guan Chou Yuan Canteen, THU (清华大学观畴园餐厅 2 层)</i>
The Afternoon Wrap-up	
	Chair: Daniel Castaño Díez & Sai Li
13:30-15:00	Workshop Survey & Ideas for the Next Workshop; Discussion; Closing Remarks; Poster Prize Award; Conference Organizers' Award



Magnified Campus Map



- Main Building
- Jia Suo Guest House
- Biomedicine Building
- Canteens