

Geometry and Topology in Soft Matter Physics July 6–July 31, 2026

Detailed Schedule All lectures are in Duane Physics Room G130

Public lecture: Duane G1B30; posters: G130 common space; catered dinner: JILA 10th floor

Week 1, July 6–10, 2026

Elasticity and Geometry

Sunday, July 5th

Welcome Registration Mixer with light refreshments

18:30 – 20:30

Common space next to Duane Physics G130

Monday, July 6th

8:30 – 9:00

Welcome

9:00 – 10:30

M. Moshe

Geometric mechanics of solids I

10:30 – 11:00

Coffee Break

11:00 – 12:30

R. James

Elasticity theory I

12:30 – 13:45

Lunch

14:00 – 15:30

C. Rycroft

Computational methods for elastic sheets I

15:30 – 17:00

Participant Introductions

18:30 – 18:55

Poster Blurbs I

Duane Physics G130

19:00 – 22:00

Poster Session I

Common space next to Duane Physics G130

Tuesday, July 7th

9:00 – 10:30

M. Moshe

Geometric mechanics of solids II

10:30 – 11:00

Coffee Break

11:00 – 12:30

R. James

Elasticity theory II

12:30 – 13:45

Lunch

14:00 – 15:30

C. Rycroft

Computational methods for elastic sheets II

18:00 – 20:30

Social

Dessert on Flagstaff Mountain

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Wednesday, July 8th

9:00 – 10:30	M. Moshe <i>Geometric mechanics of solids III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	R. Kamien <i>Topology in materials I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Tutorial / Q&A
15:45 – 17:00	Problem solving

Thursday, July 9th

9:00 – 10:30	R. Kamien <i>Topology in materials II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	R. James <i>Elasticity theory III</i>
12:30 – 13:45	Lunch
14:00 – 15:30	M. Moshe <i>Geometric mechanics of solids IV</i>

Friday, July 10th

9:00 – 10:30	R. Kamien <i>Topology in materials III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	C. Rycroft <i>Computational methods for elastic sheets III</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Problems & What have we learned?
19:00 – 21:30	Catered Dinner <i>10th floor of JILA tower</i>

Week 2, July 13-17, 2026

Complex Fluids

Monday, July 13th

9:00 – 10:30	M. Shelley <i>Fluid and continuum mechanics I</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	S. Spagnolie <i>Hydrodynamics of complex fluids I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	P. Vlahovska <i>Membranes, vesicles, and fluid–structure interactions I</i>
18:30 – 18:55	Poster Blurbs II <i>Duane Physics G130</i>
19:00 – 22:00	Poster Session II <i>Common space next to Duane Physics G130</i>

Tuesday, July 14th

9:00 – 10:30	M. Shelley <i>Fluid and continuum mechanics II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	S. Spagnolie <i>Hydrodynamics of complex fluids II</i>
12:30 – 13:45	Lunch
14:00 – 15:30	P. Vlahovska <i>Membranes, vesicles, and fluid–structure interactions II</i>

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Wednesday, July 15th

9:00 – 10:30	M. Shelley <i>Fluid and continuum mechanics III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	C. Marchetti <i>Active fluids I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Tutorial / Q&A
15:45 – 17:00	Problem solving

Thursday, July 16th

9:00 – 10:30	C. Marchetti <i>Active fluids II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	P. Vlahovska <i>Membranes, vesicles, and fluid–structure interactions III</i>
12:30 – 13:45	Lunch
14:00 – 15:30	M. Shelley <i>Fluid and continuum mechanics IV</i>

Friday, July 17th

9:00 – 10:30	C. Marchetti <i>Active fluids III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	S. Spagnolie <i>Hydrodynamics of complex fluids III</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Problems & What have we learned?

Week 3, July 20-24, 2026
Heterogeneous Materials

Monday, July 20th

9:00 – 10:30	G. Grason <i>Geometric frustration in soft matter I</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	X. Mao <i>Waves and topological mechanics I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	J. Panetta <i>Computational homogenization and inverse design I</i>
18:30 – 18:55	Poster Blurbs III <i>Duane Physics G130</i>
19:00 – 22:00	Poster Session III <i>Common space next to Duane Physics G130</i>

Tuesday, July 21st

9:00 – 10:30	G. Grason <i>Geometric frustration in soft matter II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	X. Mao <i>Waves and topological mechanics II</i>
12:30 – 13:45	Lunch
14:00 – 15:30	J. Panetta <i>Computational homogenization and inverse design II</i>
19:00 – 20:00	Public Lecture: G. Grason <i>Geometrically programmed nanostructure assembly</i> <i>Duane Physics G1B30</i>

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Wednesday, July 22nd

9:00 – 10:30	G. Grason <i>Geometric frustration in soft matter III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	E. Katifori <i>Physical networks I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Tutorial / Q&A
15:45 – 17:00	Problem solving

Thursday, July 23rd

9:00 – 10:30	X. Mao <i>Waves and topological mechanics III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	E. Katifori <i>Physical networks II</i>
12:30 – 13:45	Lunch
14:00 – 15:30	G. Grason <i>Geometric frustration in soft matter IV</i>

Friday, July 24th

9:00 – 10:30	J. Panetta <i>Computational homogenization and inverse design III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	E. Katifori <i>Physical networks III</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Problems & What have we learned?

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Week 4, July 27-31, 2026

Physical Networks

Monday, July 27th

9:00 – 10:30

I. Streinu

Rigidity theory I

10:30 – 11:00

Coffee Break

11:00 – 12:30

J. Schwarz

Mechanics and learning in networks I

12:30 – 13:45

Lunch

14:00 – 15:30

C. Modes

Dynamics of networks I

Tuesday, July 28th

9:00 – 10:30

I. Streinu

Rigidity theory II

10:30 – 11:00

Coffee Break

11:00 – 12:30

J. Schwarz

Mechanics and learning in networks II

12:30 – 13:45

Lunch

14:00 – 15:30

C. Modes

Dynamics of networks II

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Wednesday, July 29th

9:00 – 10:30	I. Streinu <i>Rigidity theory III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	I. Tobasco <i>Homogenization of mechanical metamaterials I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Problem solving

Thursday, July 30th

9:00 – 10:30	I. Tobasco <i>Homogenization of mechanical metamaterials II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	J. Schwarz <i>Mechanics and learning in networks III</i>
12:30 – 13:45	Lunch
14:00 – 15:30	C. Modes <i>Dynamics of networks III</i>

Friday, July 31st

9:00 – 10:30	I. Tobasco <i>Homogenization of mechanical metamaterials III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	C. Modes <i>Dynamics of networks IV</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Problems & What have we learned?