Differential and Symplectic Geometry

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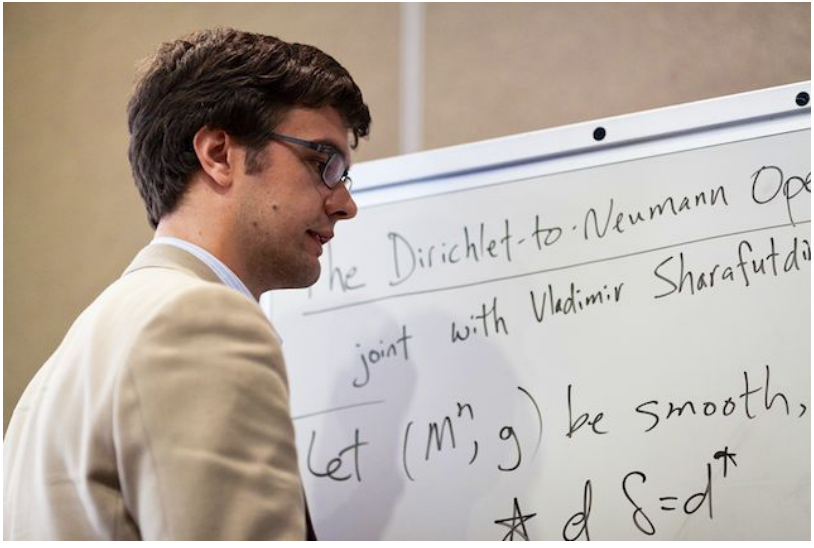

Figure: Clayton Shonkwiler

Interests

- Differential and symplectic geometry.
- Applications to synthetic chemistry, polymer physics.
- Polygon spaces and geometric probability/measure.
- Relationship of symplectic geometry to frame theory.
- Differential forms and the geometric inverse problems.

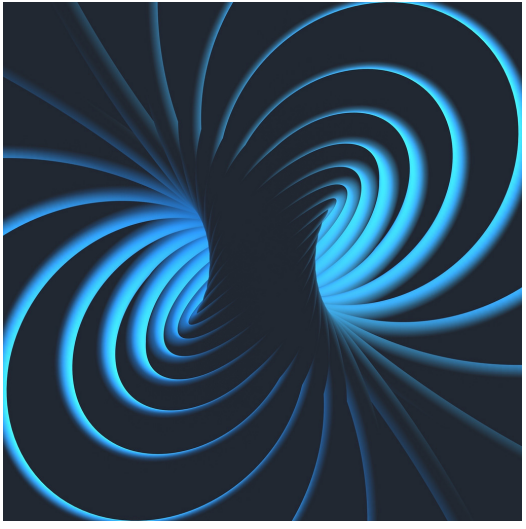

Figure: Check out shonkwiler.org, @shonk on Instragram, and community.wolfram.com/web/claytonshonkwiler

Figure: Patrick Shipman

(Relevant) Interests

- Differential geometry.
- Applications to organic systems and pattern formation.
- Dirac operator and minimal surfaces.
- Geometric approaches to ODEs and PDEs.