

BELIV Panel: Looking Back, Looking Forward

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<http://www.cs.ubc.ca/~tmm/talks.html#beliv20panel>

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Looking back: Evaluation waves

- wave 0: no human-subjects evaluation, some computational benchmarks
- wave 1: add paper types beyond *technique*
 - 1A: human-subjects eval (quant)
- wave 2: beyond quant
 - 2A: human-subjects qual eval
 - 2B: design studies
 - 2C: rise of systematic reviews
- wave 3: more sophisticated quant eval
 - 3A: replication crisis / credibility revolution
 - more supplemental materials, experimental power, pre-registration, avoiding QRPs
 - 3B: methods infusion from vision science

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Looking forward: Fine-grained contribution types

- General Contributions
 - Algorithms
 - Data Abstractions and Types
 - Datasets
 - Deployment
 - Methodologies
 - Application Motivated Visualization
 - Guidelines
 - Interaction Design
 - Process/Workflow Design
 - Software Architecture, Toolkit/Library, Language
 - Software Prototype
 - State-of-the-art Survey
 - Task Abstractions & Application Domains
 - Taxonomy, Models, Frameworks, Theory
 - Visual Representation Design
 - Other Contribution
- Evaluation Contributions
 - Computational Benchmark Studies
 - Human-Subjects Qualitative Studies
 - Human-Subjects Quantitative Studies

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Looking forward: Wish list

- wave 4: more sophisticated qual
 - deeper connection to social science & humanities frameworks
 - interpretivism, intersectional feminism, ...
 - abstractions common beyond design studies, also in technique papers
 - design studies & application-driven vis stay vibrant & at forefront
- wave 5: true mixed-methods approaches
 - bridging the quant/qual divide
- benchmark datasets
 - data, & tasks too
- actual replication
 - still very rare
 - reflecting on past results: repudiation (less extreme than retraction)

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