

Finding a fETus with UltraSound (FETUS)

Shu Wang, Ou Zhanchong, Miguel Xochicale

Event name **#2021**

June 01, 2021

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1. Who we are?
2. Fetal Growth
3. Simulator for Ultrasound-Guidance Interventions
4. Conclusions and Future work

Who we are?

Who we are? / Where we come from? / What we love?



Miguel
Xochicale



Shu
Wang

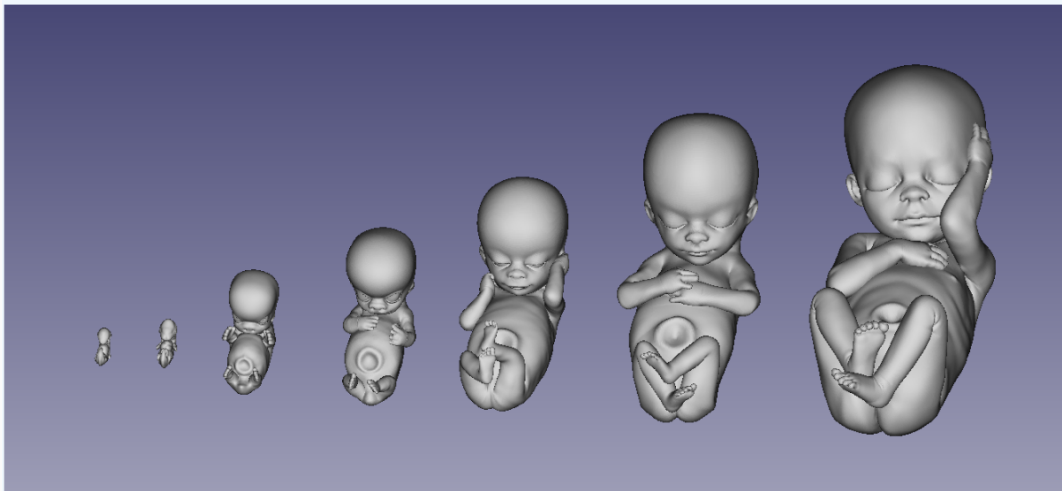


Ou
Zhanchong

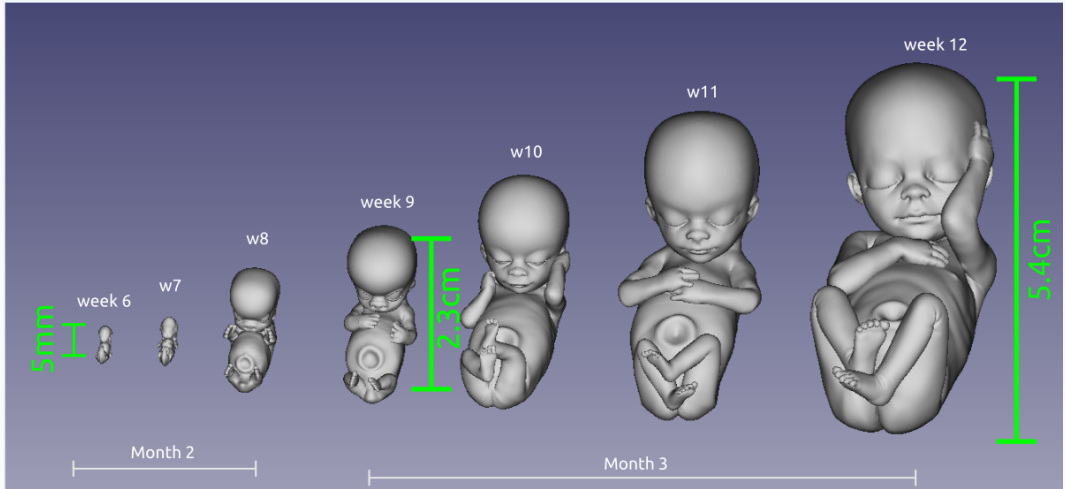


Fetal Growth

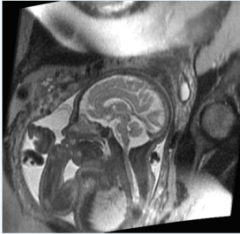
Can you guess the age/size of these fetus?



Fetal Growth



MRI



US

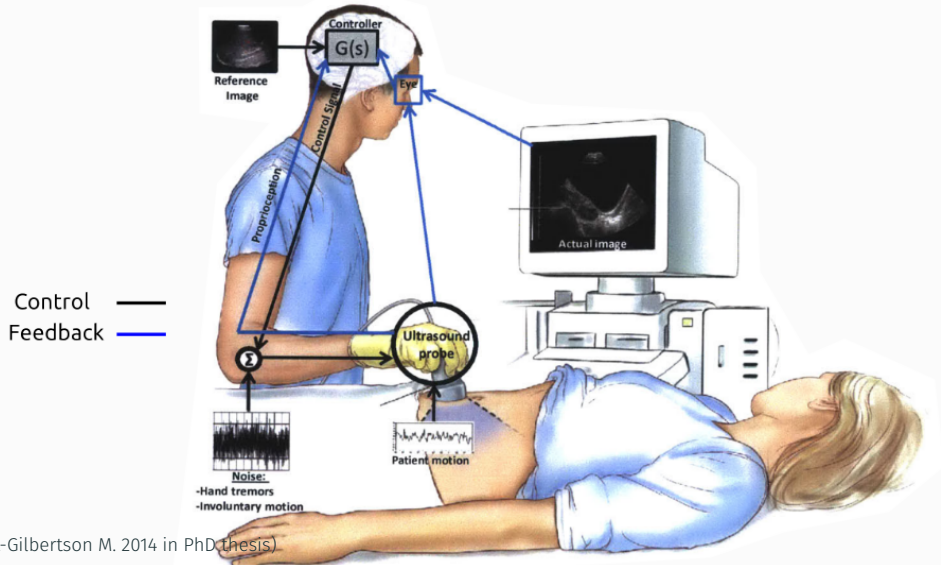


Real Phantom



Simulator for Ultrasound-Guidance Interventions

The sonographer-probe-patient control system

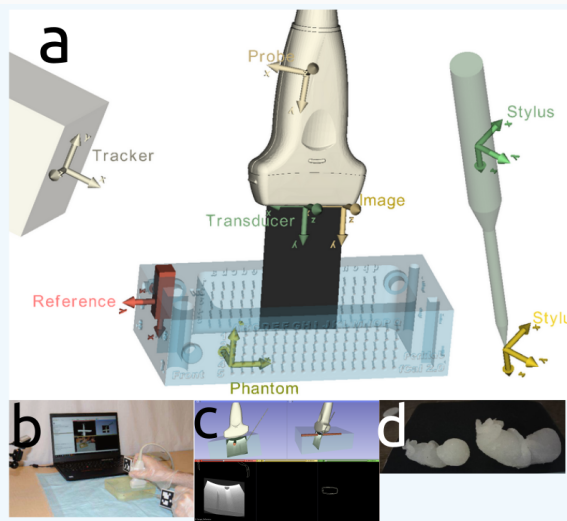


(Wright-Gilbertson M. 2014 in PhD thesis)

Simulator for Ultrasound-Guidance Interventions

Towards a more realistic

- UGI
- US images
- Phantoms with 3D-printed US compatible material
- Training for in-plane, out-of-plane needle tracking



((a) Coordinate systems overview sketch in 3D Slicer, (b) Asselin et al. 2018 in conf-BIVPCS, (c) US-simulator, and (d) 3D-printed fetus)

Conclusions and Future work

Conclusions

We

-

Future work

- ...

- ...

Acknowledgements



Shu
Wang



Ou
Zhanchong



Fang-Yu Lin



Miguel
Xochicale



Name
Surname

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