Finding a fETus with UltraSound (FETUS)

Shu Wang, Ou Zhanchong, Miguel Xochicale

Event name **#2021**

June 01, 2021

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Who we are?

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

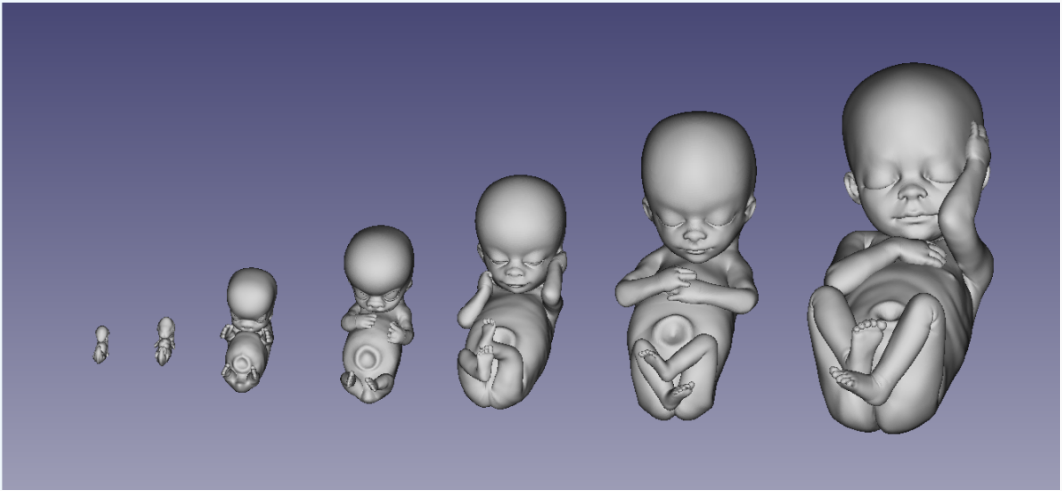
Miguel
Xochicale

Shu
Wang

Ou
Zhanchong

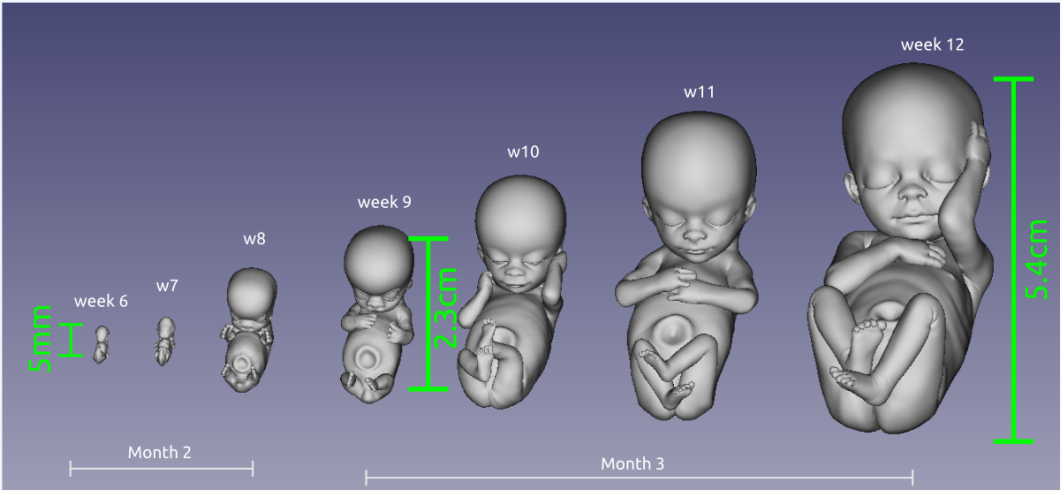
Fetal Growth

Can you guess the age/size of these fetus?



(Growing Baby: 3D Print-ready Models)

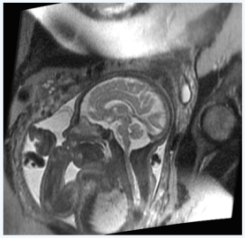
Fetal Growth



(Growing Baby: 3D Print-ready Models)

Fetal imaging

MRI



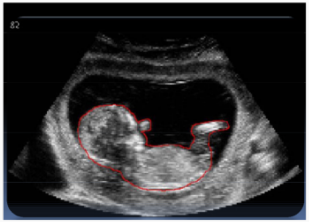
US

Real

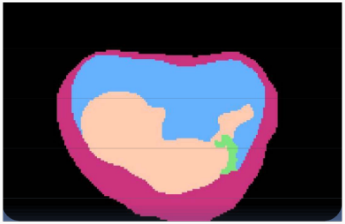
Phantom

(Growing Baby: 3D Print-ready Models)

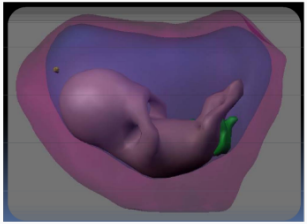
Segmentation on 3D US data



Tissue Labelling

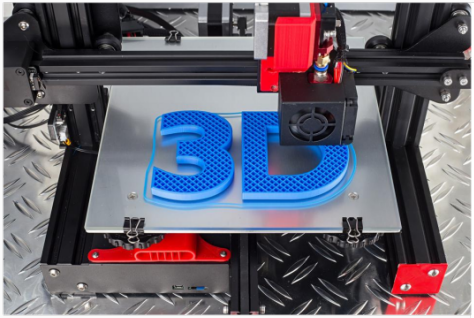


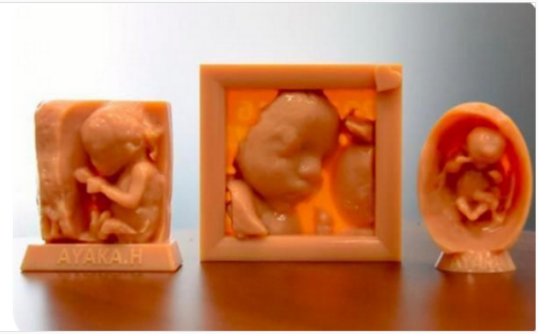
Surface Reconstruction



(Fetal and Mother Numerical Models (FEMONUM) in http://femonum.telecom-paristech.fr)

Fetal imaging

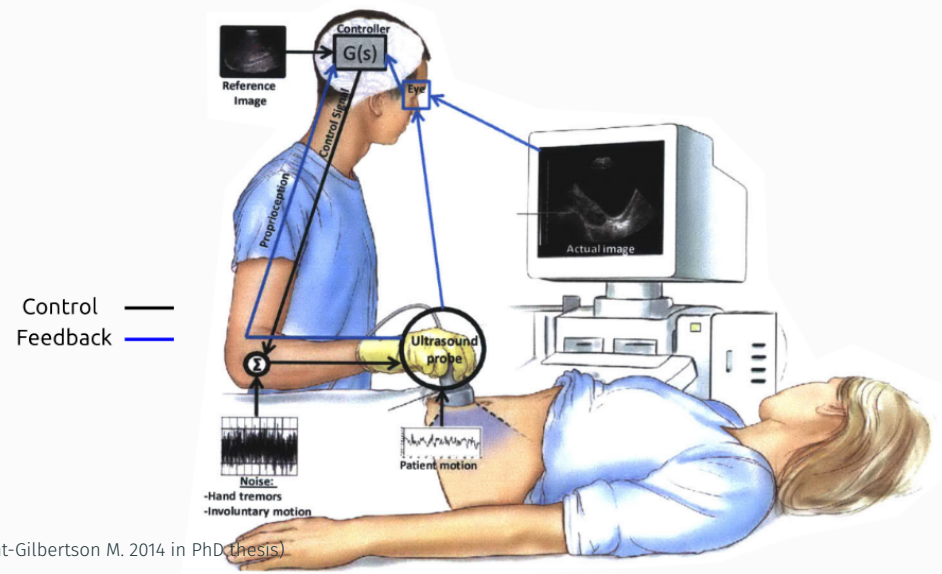




(3D printing FETUS)

Simulator for Ultrasound-Guidance Interventions

The sonographer-probe-patient control system

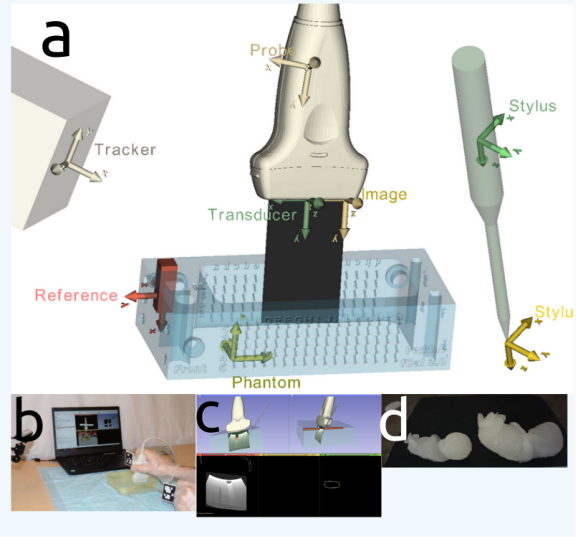


(Wright-Gilbertson M. 2014 in PhD thesis)

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 and future work

Conclusions

We ....

-

Future work

- ...
- ...

Acknowledgements

Shu Wang

Ou Zhanchong

Fang-Yu Lin

Miguel Xochicale

Name Surname

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