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Research Portfolio

Francisco Javier Aguilar Rojas

Nov. 30. 2023.

*Developed under the supervision of Prof. Yu Shrike Zhang
Not all items can be displayed, since some publications are pending*

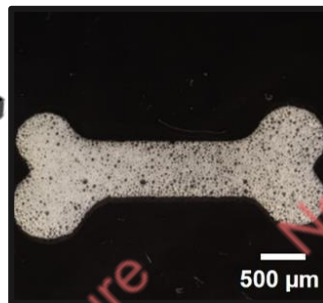
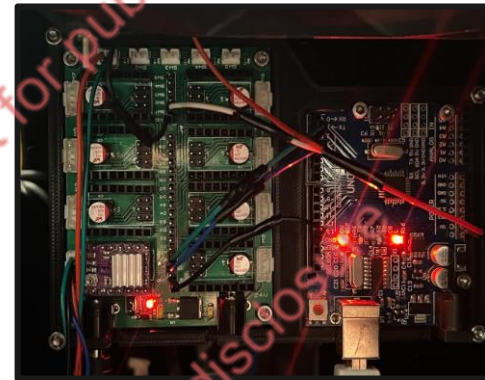
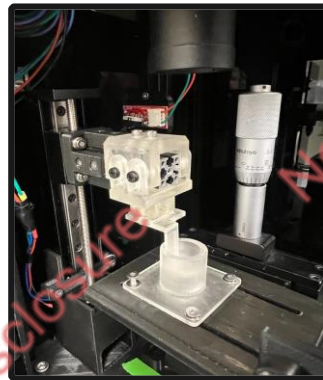


Zhang lab

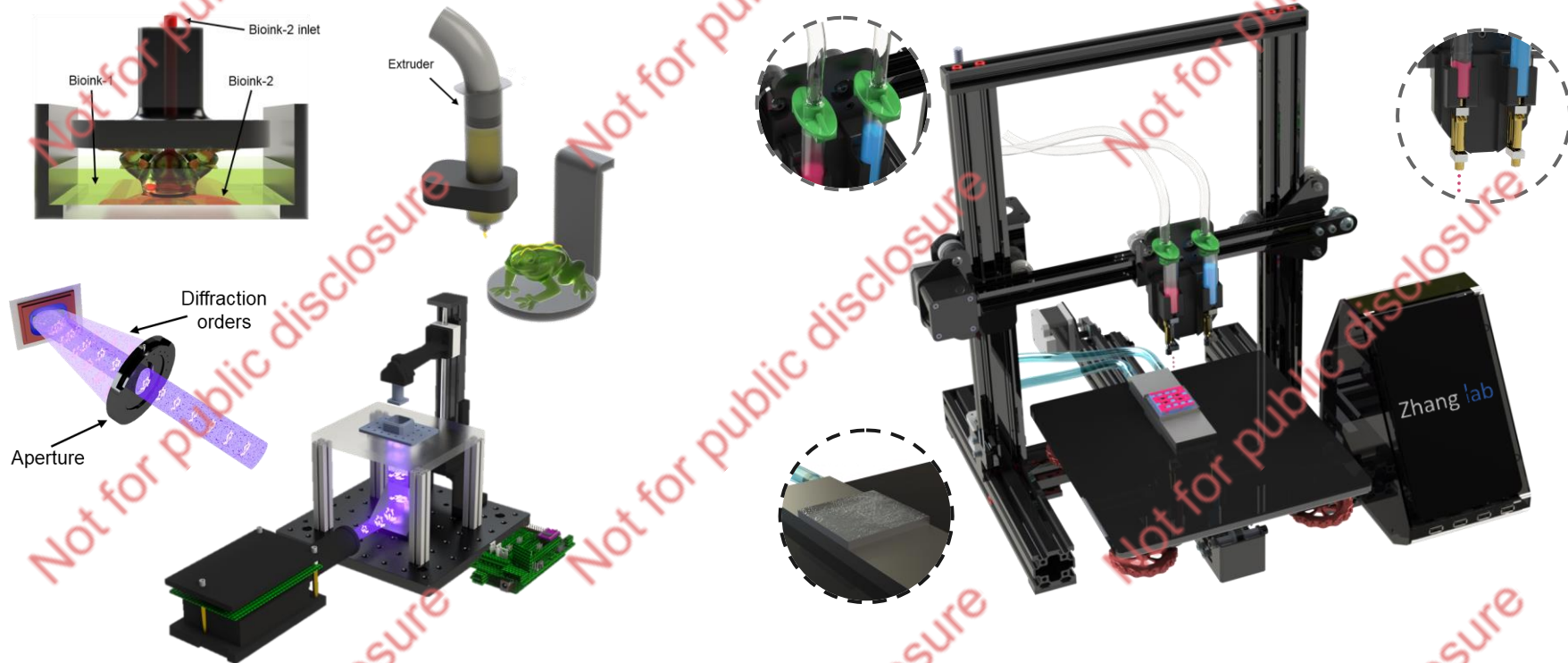
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DLP 'Bubble' Bioprinter

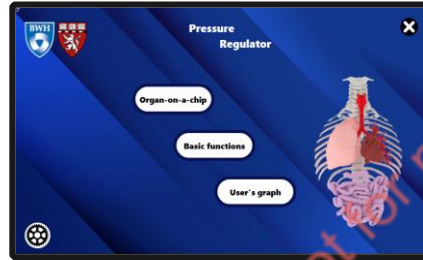
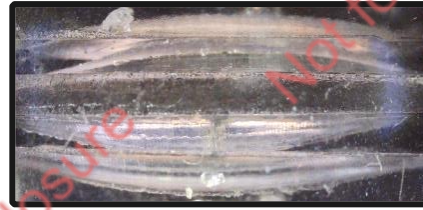
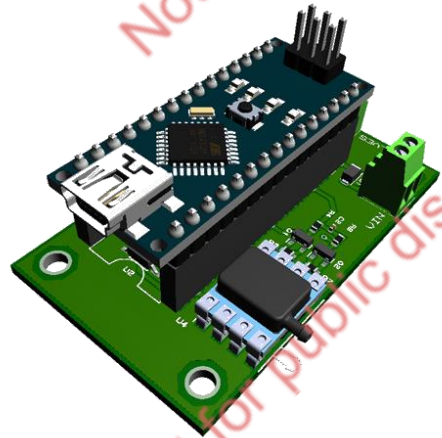


- Hardware development
- Software/interface development
- Electronics integration

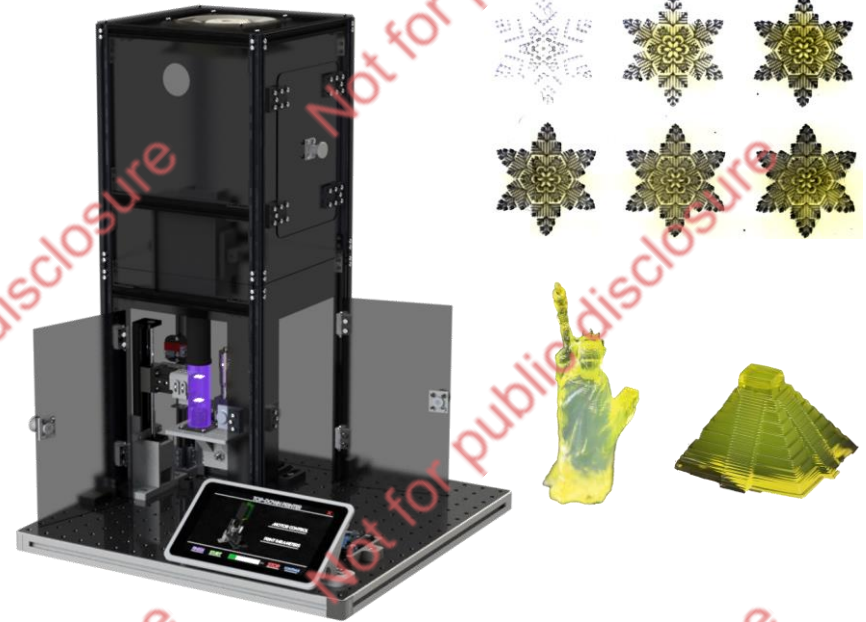


[Garciamendez-Mijares CE, **Aguilar Roja FJ**], ..., Zhang YS*. Design Considerations for Digital Light Processing (Bio)printers. *Applied Physics Reviews*. In Revision

Weygant J, Entezari A, Koch F, Galaviz RA, Garciamendez-Mijares CE, Hernández, P, Ortiz V, Rendon Ruiz DS, **Aguilar Rojas FJ**, Andolfi A, Cai L, Maharjan S, Osorio A, Zhang YS*. Droplet 3D Cryobioprinting for Fabrication of Free-Standing and Volumetric Structures. *Aggregate*. In Revision

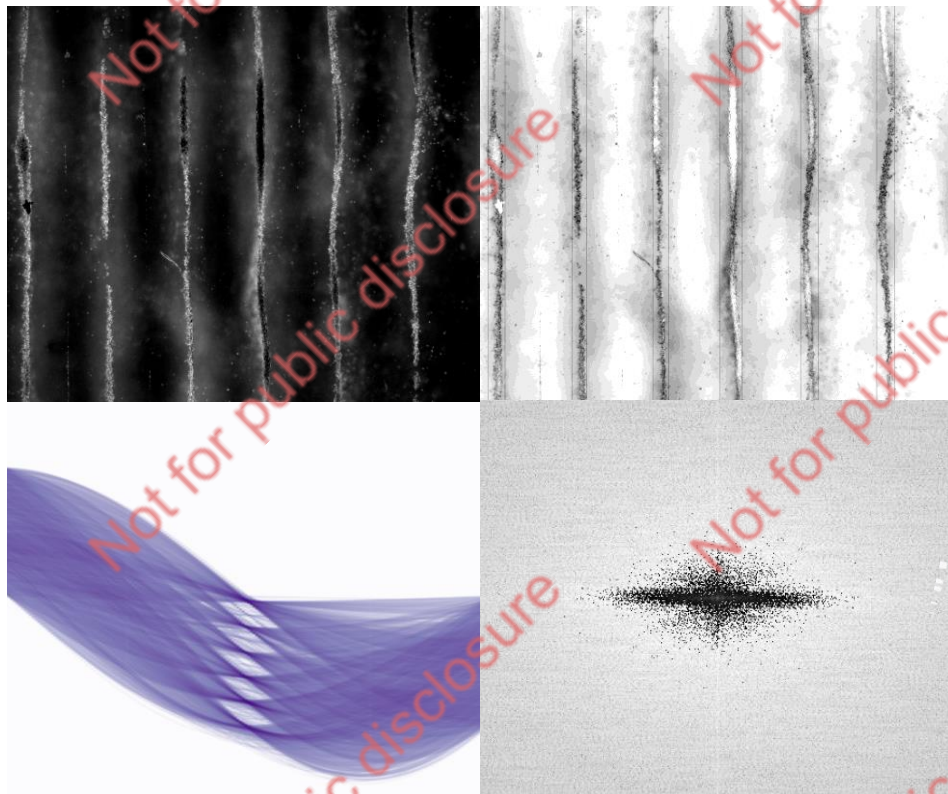


[Garciamendez-Mijares CE, **Aguilar Rojas FJ**], ..., Zhang YS*. A Pressure-Regulator Platform for Applying Biomechanical Stimuli on Organ-on-A-Chip Systems with Physiological and Pathological Relevancy. **Advanced Healthcare Materials.** In Revision



Aguilar Rojas FJ, ..., Zhang YS*. A Low-cost DiY (top-down) DLP bioprinter. **International Journal of Bioprinting.** In progress

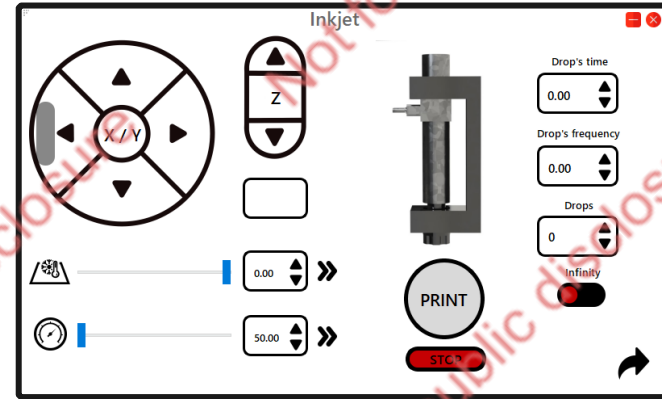
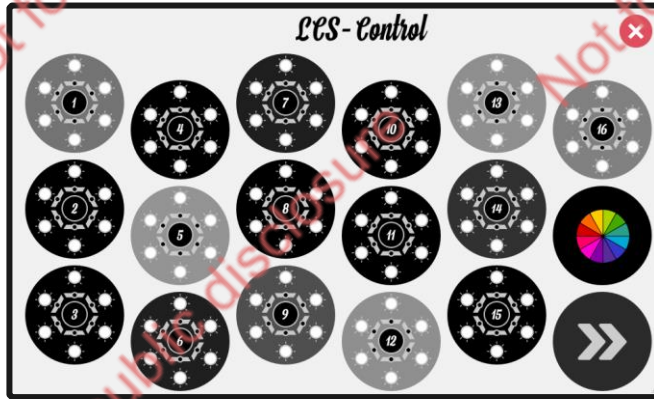
Acoustic/cell alignment for biofabrication strategies



CFD and FEA



Other designed and programmed GUIs/interfaces



Awards



TECNOLÓGICO DE MONTERREY

A través del Departamento Regional de Emprendimiento
Región Monterrey otorga el presente **RECONOCIMIENTO** a

FRANCISCO JAVIER AGUILAR ROJAS

Por haber **PARTICIPADO** en el
XLVII Premio FRISA al Desarrollo Emprendedor

Dr. Javier de la Fuente Flores
DIRECTOR REGIONAL DEL
DEPARTAMENTO DE EMPRENDIMIENTO,
REGIÓN MONTERREY

Lic. Carmen Garza T.
DIRECTORA DE
FUNDACIÓN FRISA

Monterrey, Nuevo León al 25 de noviembre de 2020



**PROGRAMA ESPACIAL
UNIVERSITARIO**

OTORGA EL PRESENTE

RECONOCIMIENTO

a
Francisco Javier Aguilar Rojas

Por su participación en el Concurso Iberoamericano de
satélites enlatados 2019-2020.

Ciudad Universitaria, CDMX, a 1 de julio de 2020

DR. JOSÉ FCO VALDÉS GALICIA
PROGRAMA ESPACIAL
UNIVERSITARIO
COORDINADOR



DR. ALEJANDRO FARAH SIMÓN
CONCURSO DE SATELITES
ENLATADOS
JEFE DE MISION



Coordinación de la
Investigación Científica



Social service

