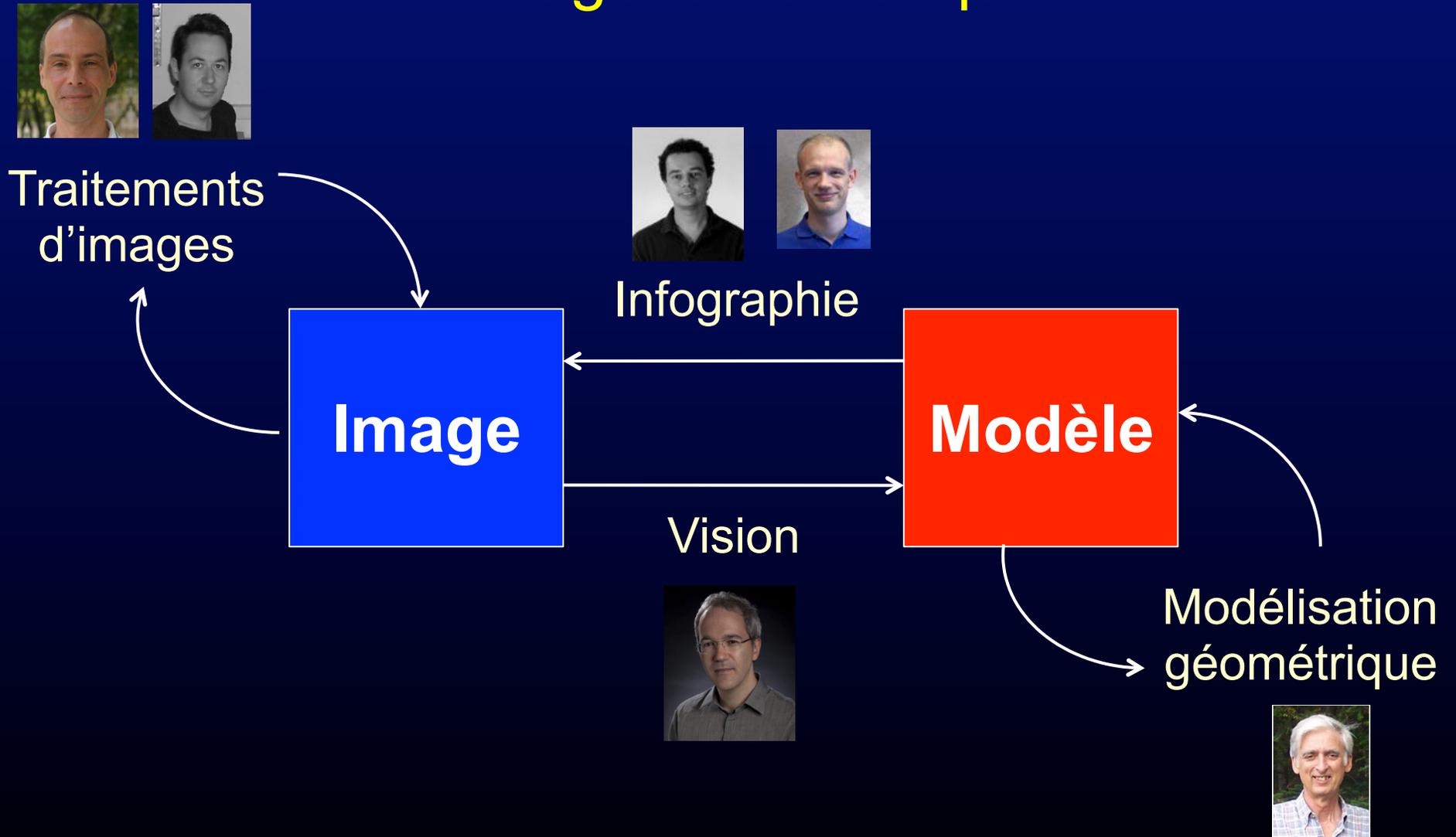


Groupe d'imagerie

Accueil des étudiants gradués
Hiver 2017

L'imagerie numérique



Les laboratoires du groupe d'imagerie

- Laboratoire de traitement d'images

Local 2384

<http://www.iro.umontreal.ca/~labimage>

- Laboratoire d'infographie

Local 2388

<http://www.ligum.umontreal.ca>

- Laboratoire de vision 3D

Local 2262

<http://vision3d.iro.umontreal.ca>

Laboratoire de traitement d'images

- Jean Meunier

Imagerie médicale, vidéosurveillance

Local 2387, meunier@iro.umontreal.ca



- Max Mignotte

Segmentation et modélisation statistique
des images

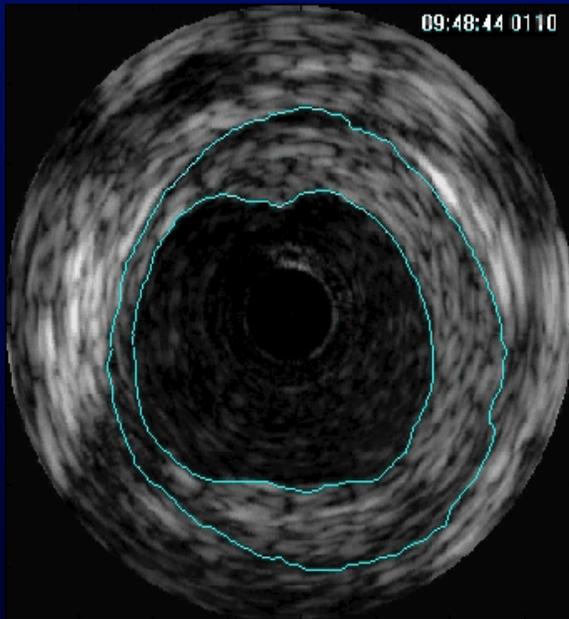
Local 2377, mignotte@iro.umontreal.ca



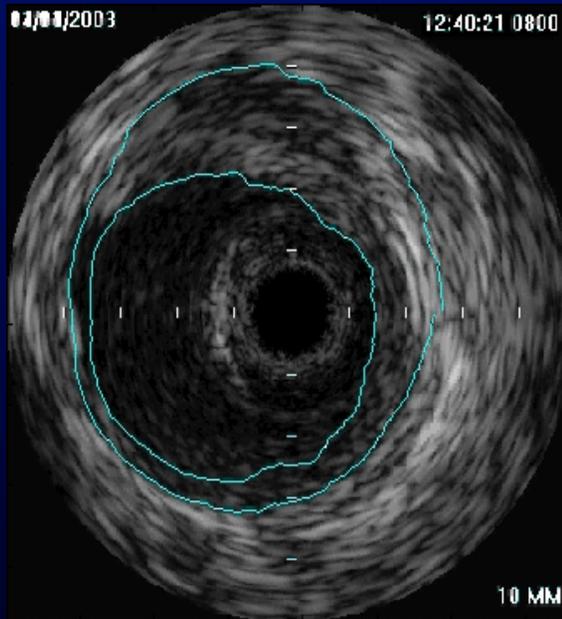
- Étudiants gradués

1 postdocs, 12 Ph.D. et 1 M.Sc.

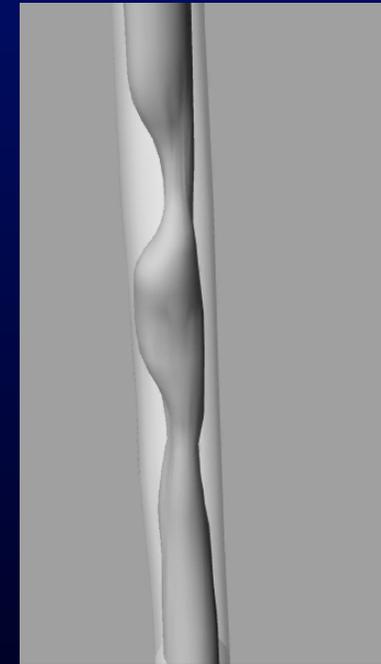
Détection de contours, Segmentation et Reconstruction 3D



Séquence IVUS d'une artère fémorale segmentée

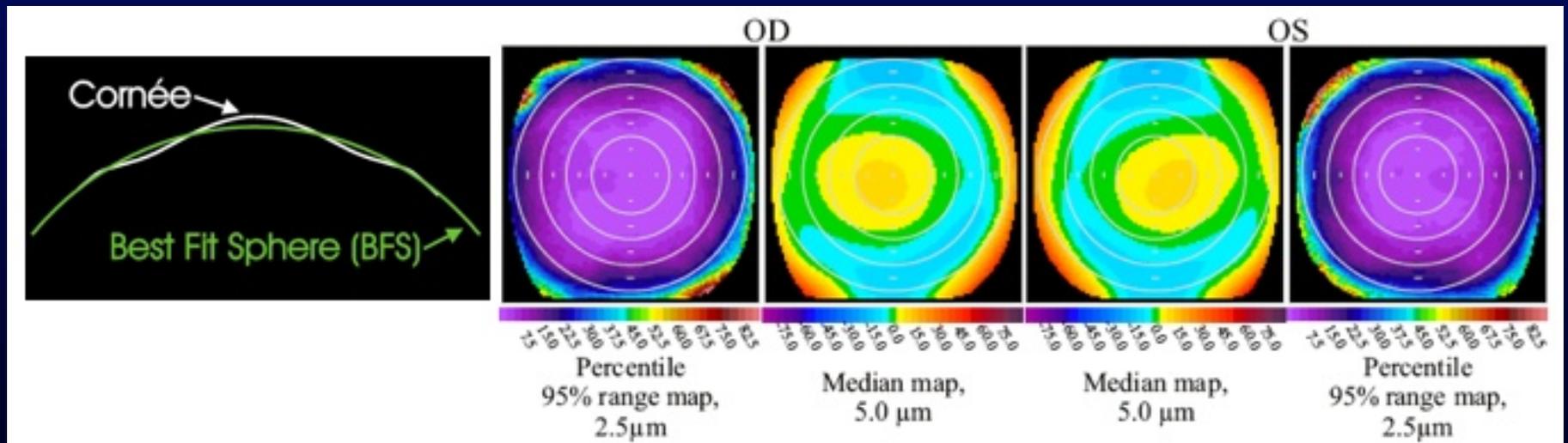


Séquence IVUS d'une artère fémorale segmentée

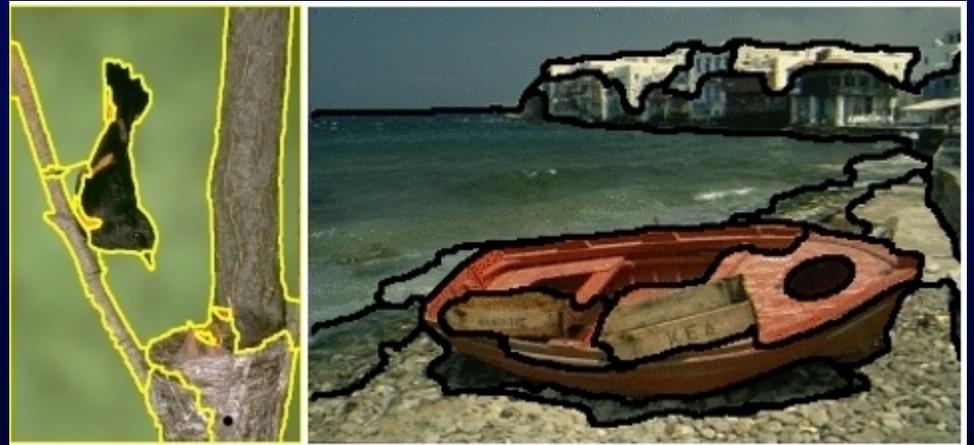


Reconstruction 3D du contour externe d'une artère fémorale

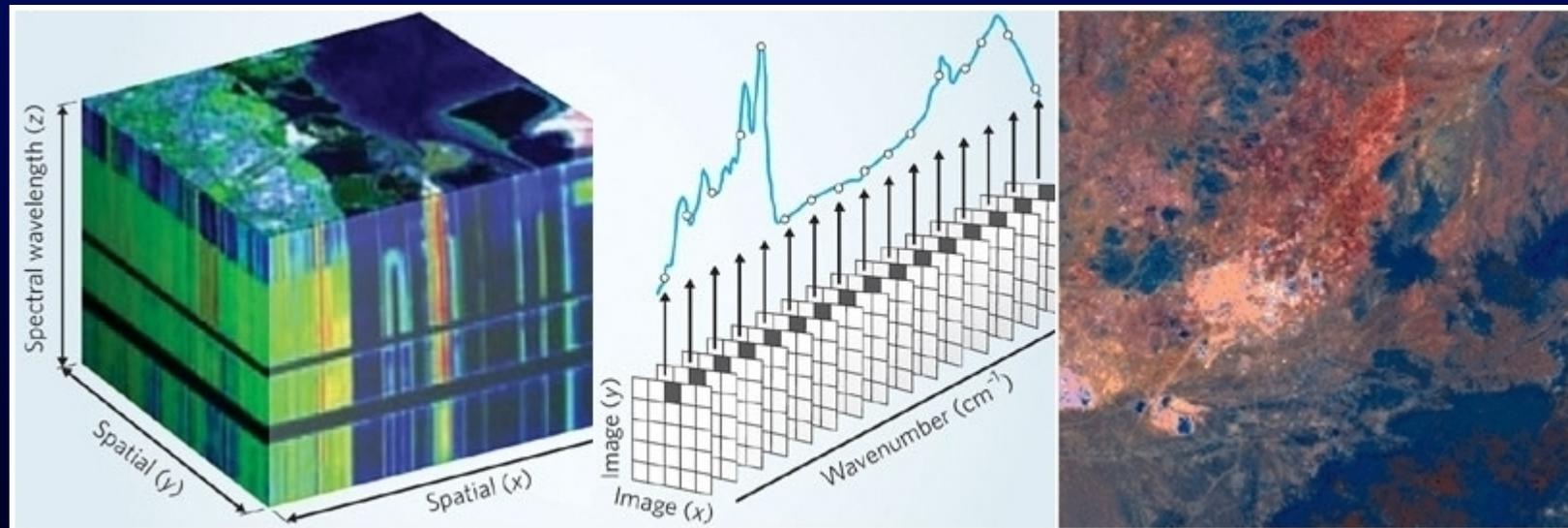
Atlas anatomique numérique (modélisation 3D et catégories de cornée humaine)



Segmentation d'images



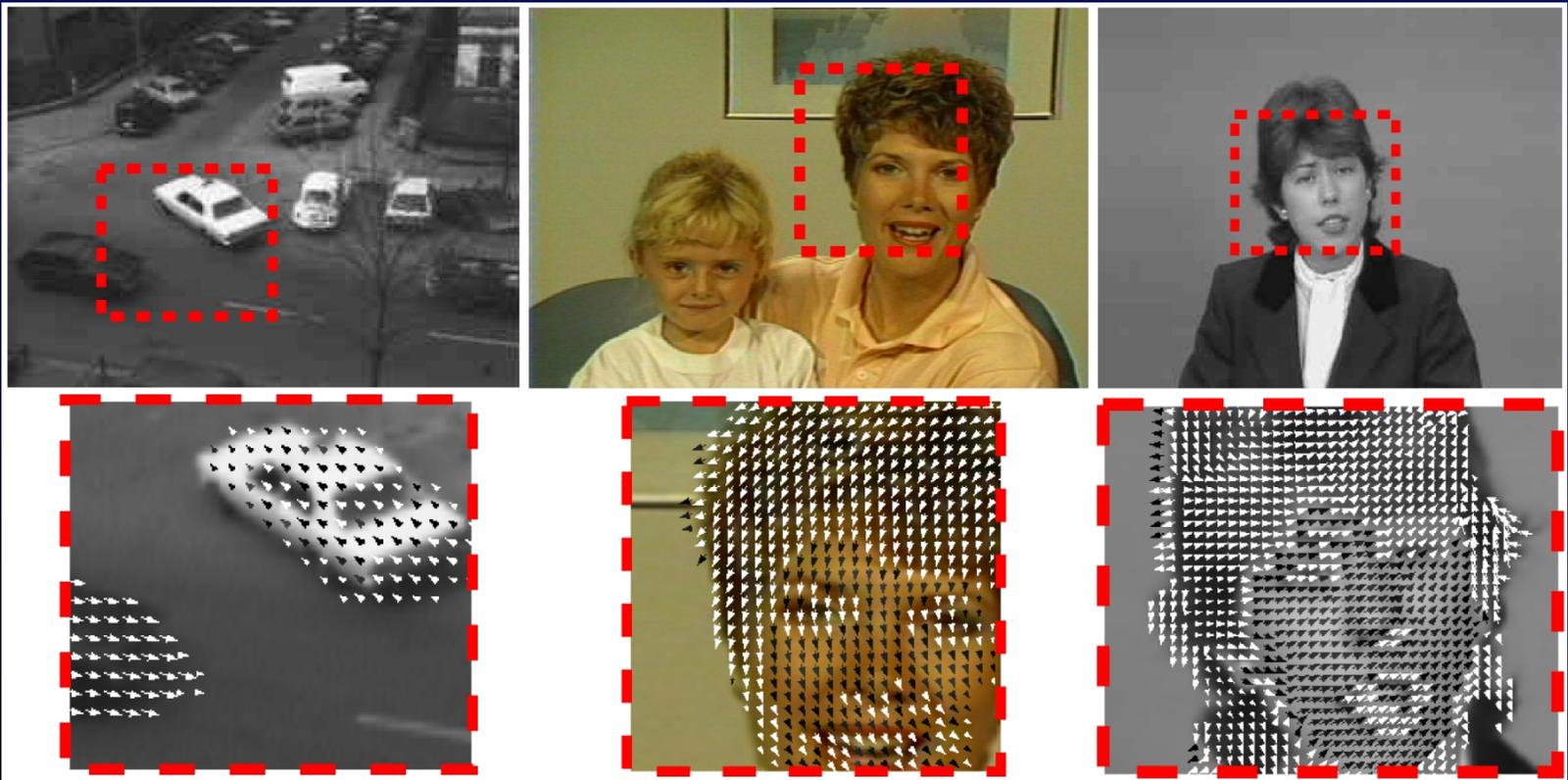
Imagerie hyperspectrale



Débruitage, Déconvolution

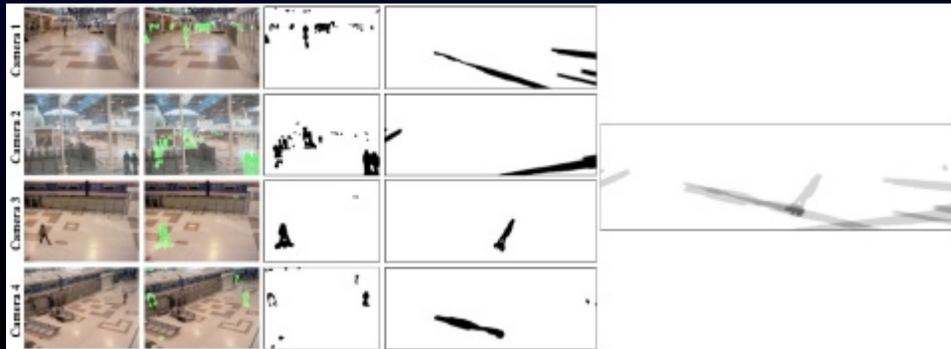
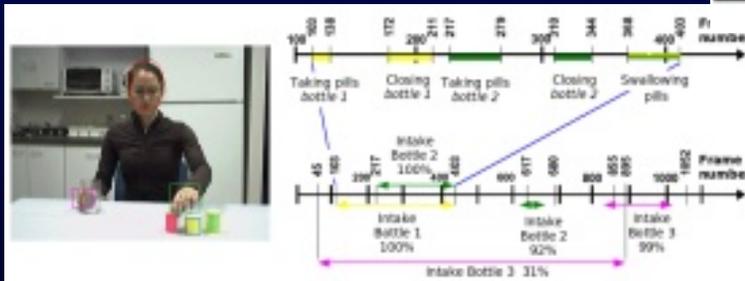
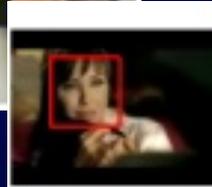


Analyse de mouvement

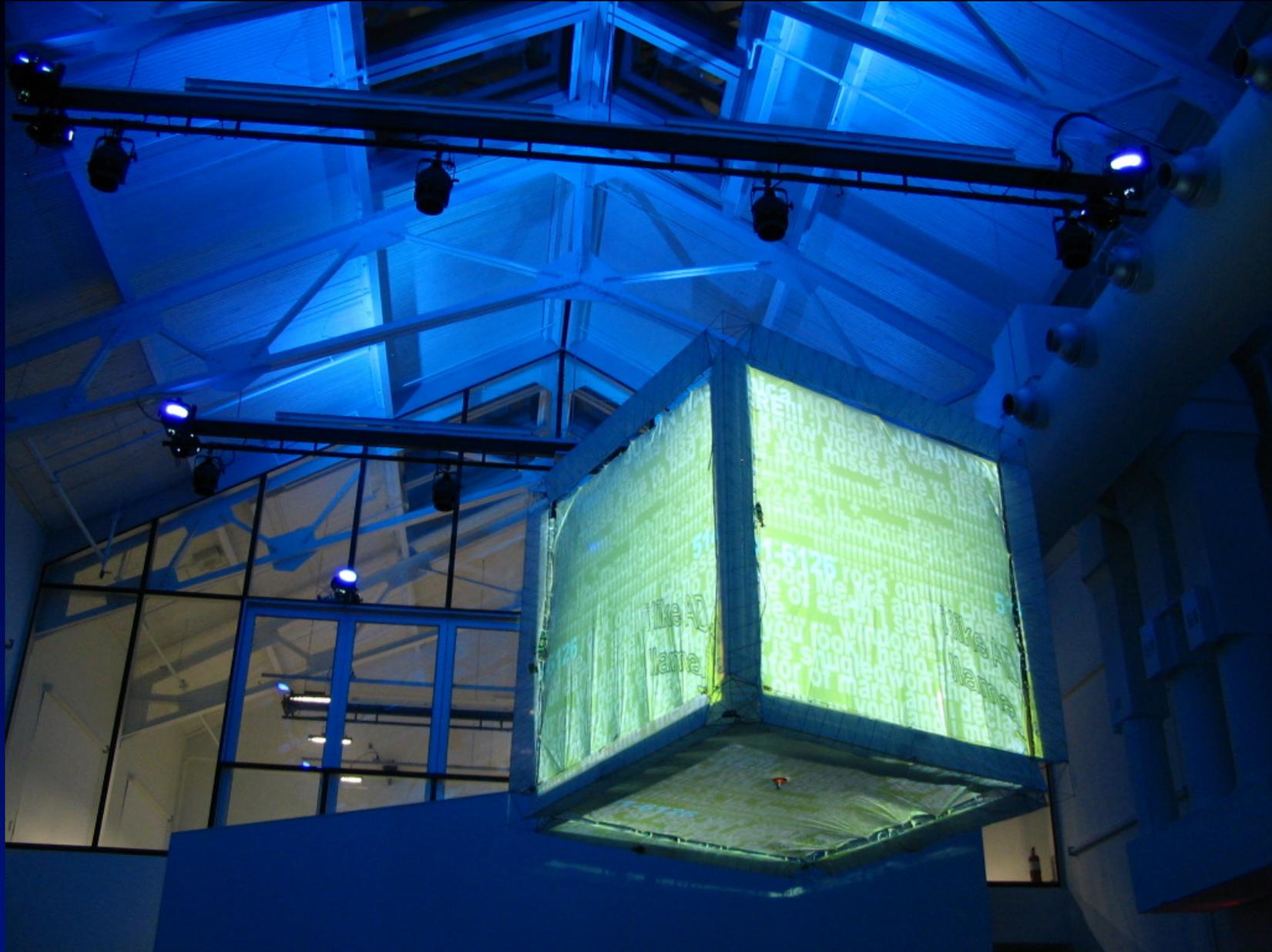


Vidéosurveillance intelligente

(détection de chute, prise de médicaments, expressions faciales)



Arts technologiques: Projections adaptatives



Arts technologiques: Projections immersives



Laboratoire d' Infographie (LIGUM)

Bernhard Thomaszewski

Fabrication et animation physique

Local 2347



Pierre Poulin

Rendu réaliste et hardware, animation,
modélisation

Local 2389, poulin@iro.umontreal.ca



Neil Stewart

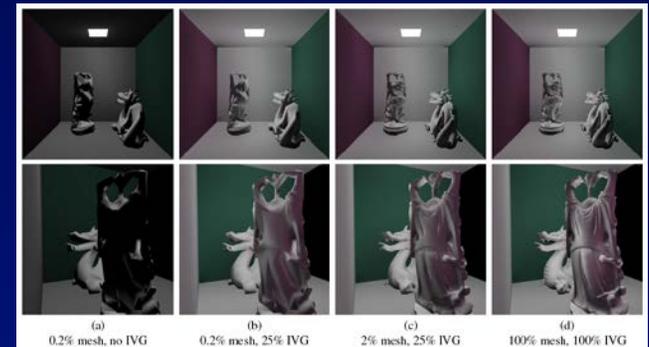
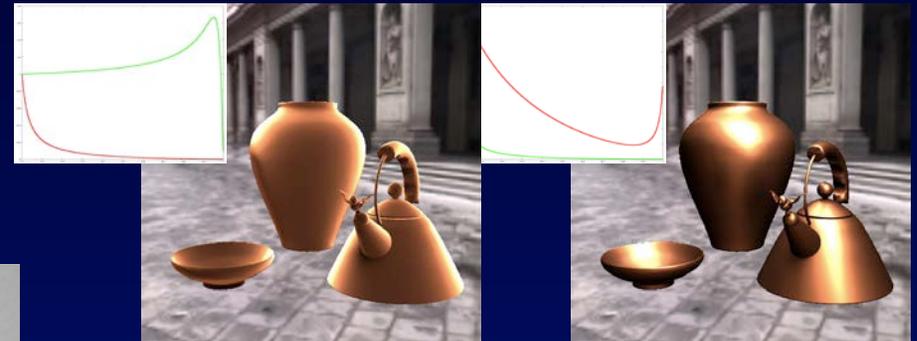
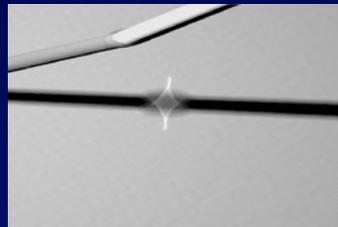
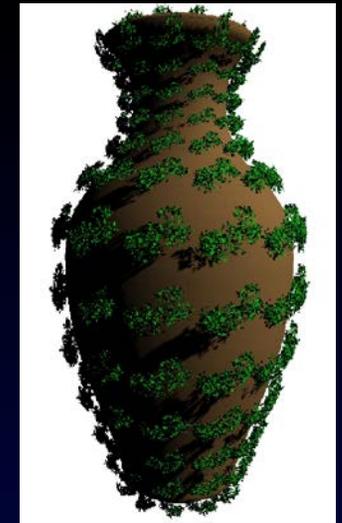
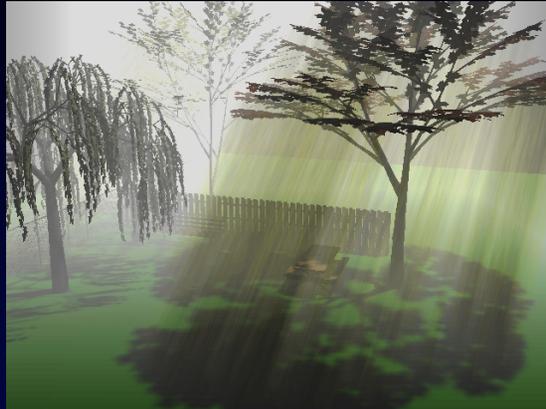
Modélisation et représentation des solides

Local 2357, stewart@iro.umontreal.ca



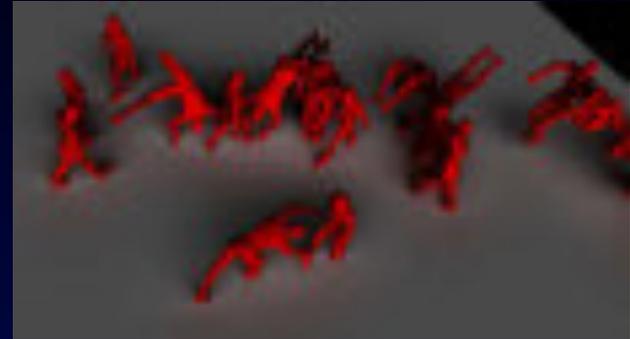
Étudiants (total au LIGUM): 6 Ph.D. et 6 M.Sc.

Infographie: Rendu

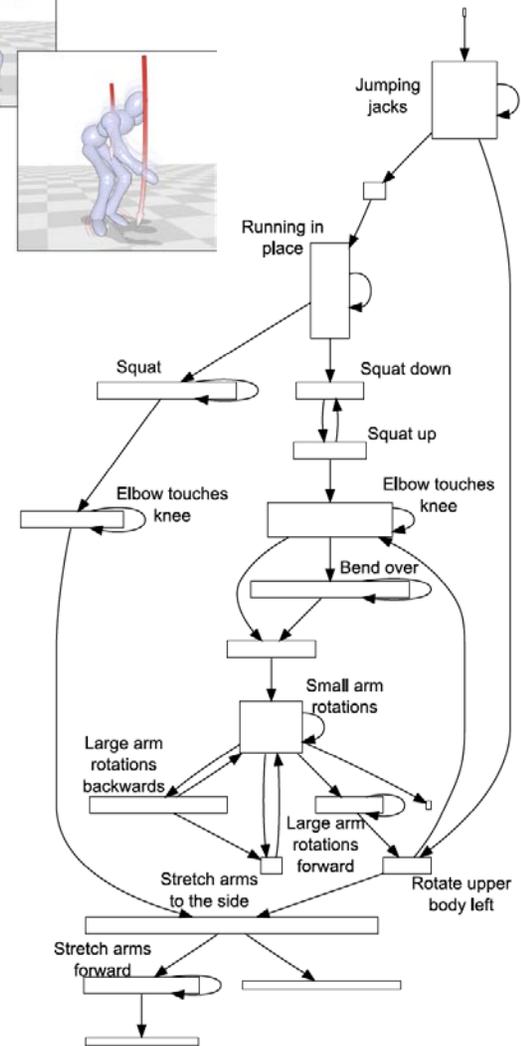
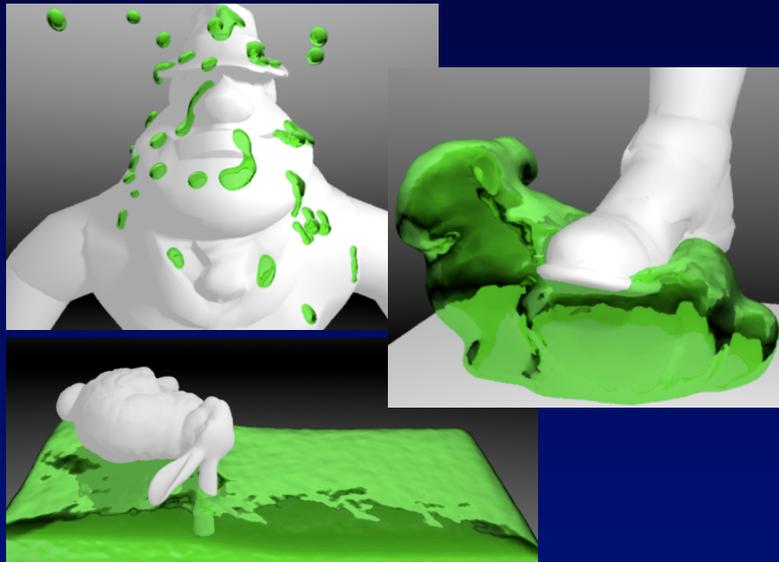
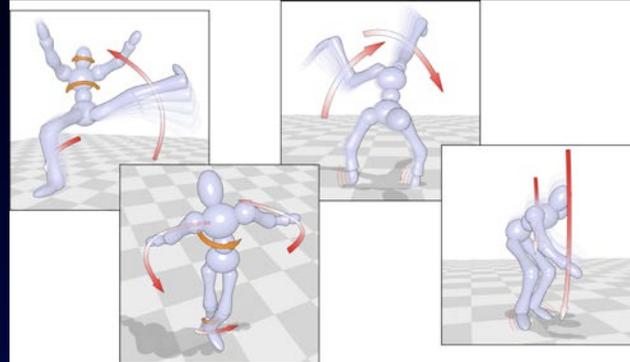


(a) 0.2% mesh, no IVG (b) 0.2% mesh, 25% IVG (c) 2% mesh, 25% IVG (d) 100% mesh, 100% IVG

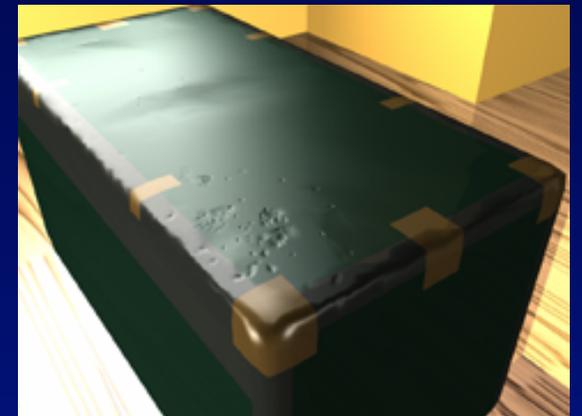
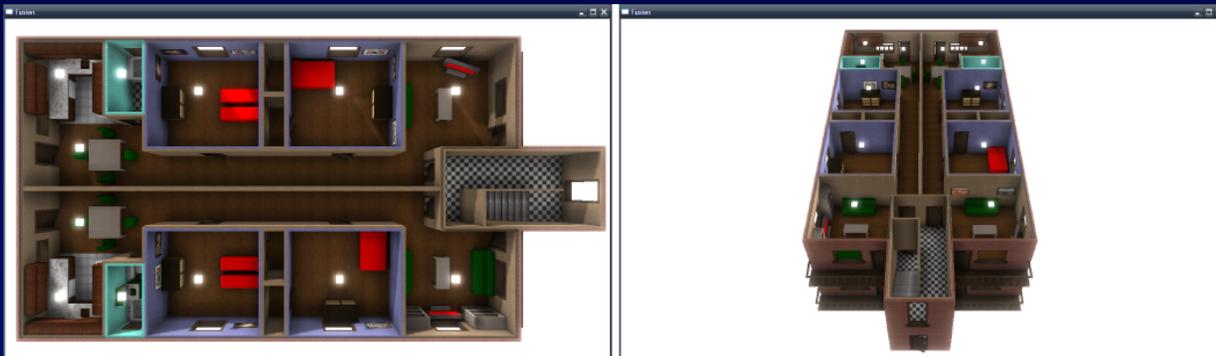
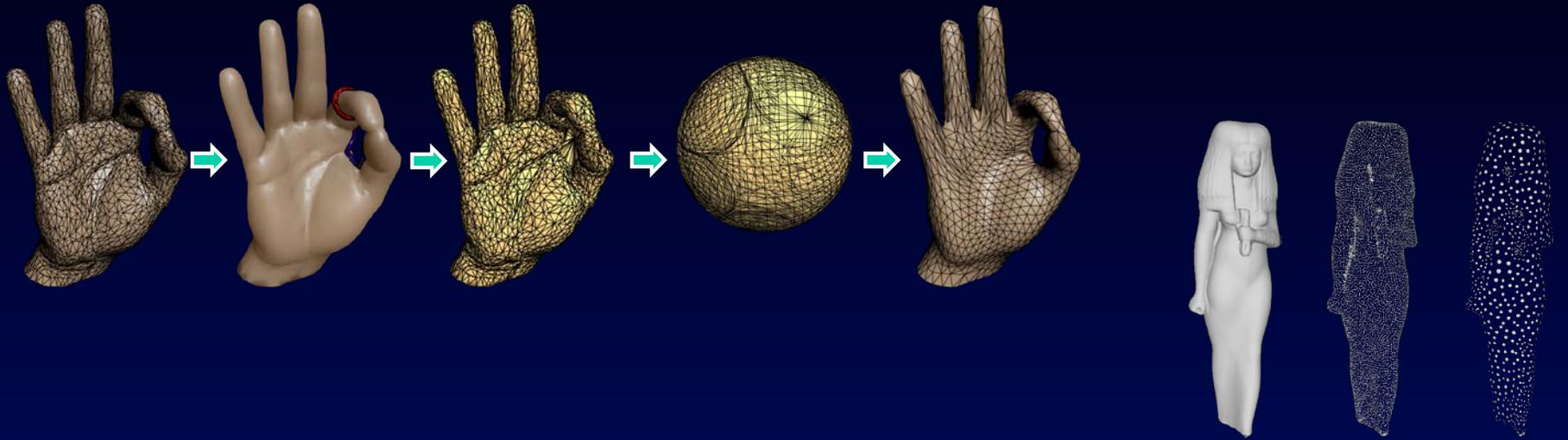
Infographie: Rendu temps-réel



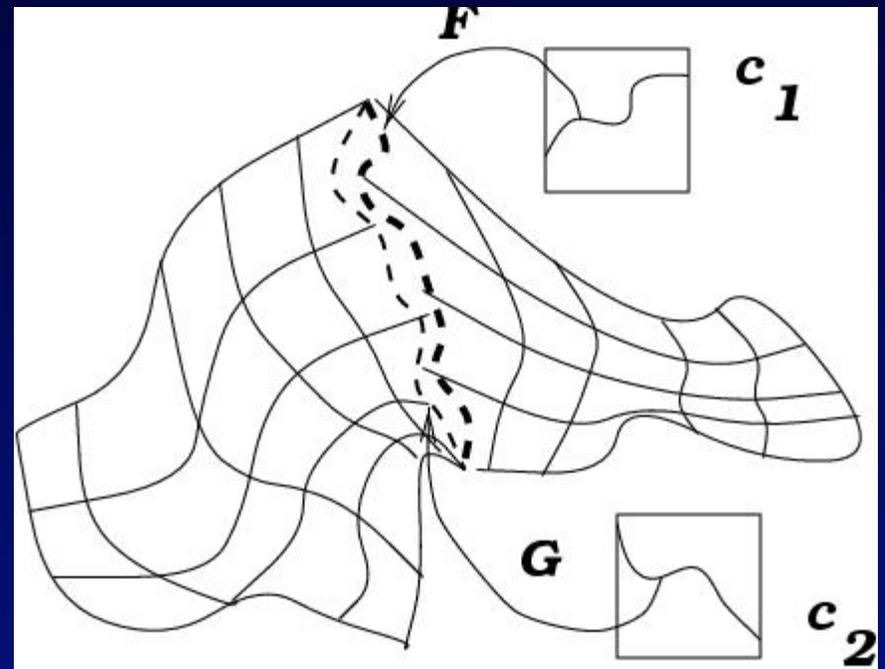
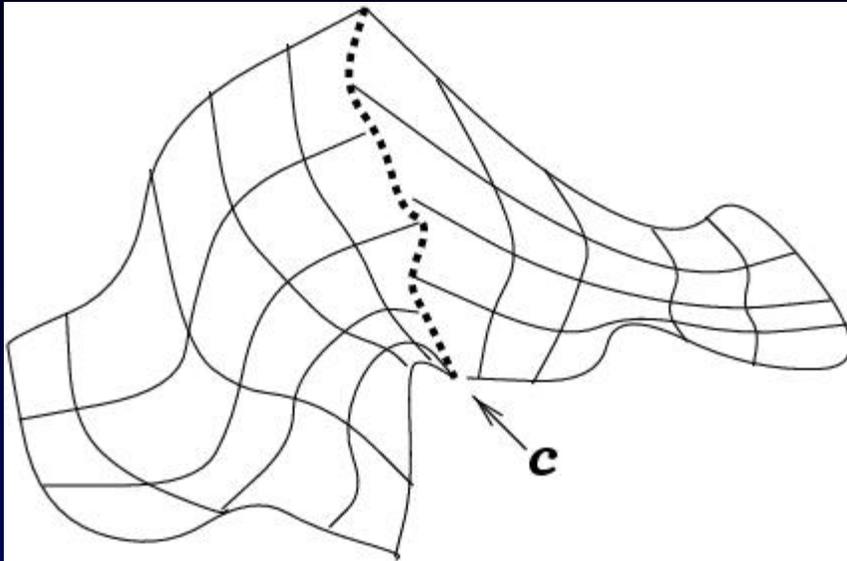
Infographie: Animation



Infographie: Modélisation



Modélisation: Robustesse des opérations



Cours gradués

- **Hiver H17**

IFT6112 Modélisation des solides

- **Automne A17**

IFT6042 Synthèse d'images

IFT6141 Reconnaissance de formes

IFT6150 Traitement d'images

IFT6145 Vision 3D (exceptionnellement)

Comment nous joindre

www.ligum.umontreal.ca
vision3d.iro.umontreal.ca/
www.iro.umontreal.ca/~labimage

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