

Papers and chapters as an introductory read for bachelor and master interns of all curricula to eye-head movements, multisensory integration and the auditory system.
Bold: obligatory reads for all students.

Recommended order:

- 1) **Purves** chapters 10-13: on sensory systems (visual – auditory – vestibular)
- 2) **Purves** chapters 16-19: on motor systems

Modern background on the oculomotor system and eye-head movement control:

- 3) **Sparks review** paper 2002
- 4) **Sommer-Wurtz** review paper 2008
- 5) Gandhi-Katnani review paper 2011

Some relevant psychophysical papers from our group on eye movements and eye-head movements to visual and auditory targets:

One out of 6 or 7:

- 6) **Goossens 1997** (eye-head control)
- 7) **Goossens 1999** (role of changes in head position on sound localization)
- 8) Corneil et al. 2002 (audiovisual integration on saccades)

One out of 9 or 10:

- 9) **Hofman et al. 1998** (auditory plasticity - I)
- 10) **Zwiers et al. 2003** (auditory plasticity – II)

Some relevant neurophysiology studies from our group, in which the development of a neurocomputational model is visible:

- 11) Goossens 2000 (blink perturbation in superior colliculus)

One out of 12 or 13:

- 12) **Goossens 2006** (population model of the superior colliculus)
- 13) **Goossens 2012** (mechanism behind the SC population model)

Some additional papers, directly relevant for your project, will be made available to the student at the start of the internship.