

**Elbow
Neurography
Illustrated Atlas**



Major Nerves of the Elbow

•Ulnar nerve

- Passes posterior to the medial epicondyle (“funny bone”).
- Runs through the cubital tunnel → fibro-osseous tunnel behind medial epicondyle, ulnar nerve passes through.

•Median nerve

- Runs medial to the brachial artery in the antecubital fossa → contains median nerve, brachial artery, and biceps tendon.
- Passes between the two heads of pronator teres.

•Radial nerve

- Divides at/near the lateral epicondyle (origin of wrist extensors) into:
 - **Superficial branch** (sensory, runs along forearm).
 - **Deep branch / posterior interosseous nerve (PIN)**, which passes through the supinator (arcade of Frohse).

Common Sites of Pathology / Impingement

•Ulnar nerve impingement

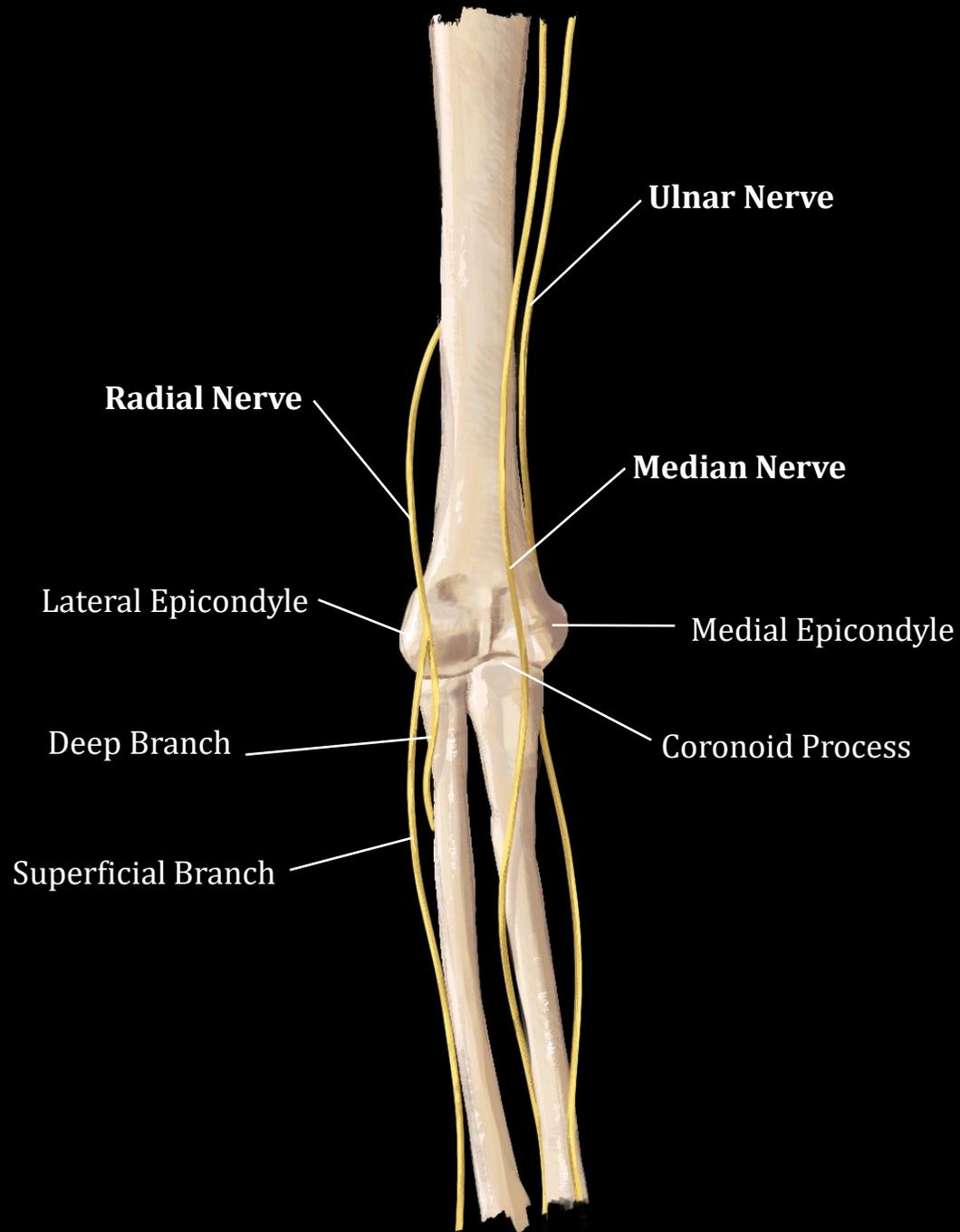
- Intermuscular septum (arcade of Struthers)
- **Cubital tunnel syndrome:** compression behind medial epicondyle.
- Flexor-pronator aponeurosis
- Nerve subluxation (ulnar nerve snapping over medial epicondyle).

•Median nerve

- Entrapment at **pronator teres** (pronator syndrome).
- Compression under the **ligament of Struthers** (less common, proximal to elbow).

•Radial nerve

- **Radial tunnel syndrome:** pain along lateral forearm.
- **Posterior interosseous nerve entrapment:** compression at arcade of Frohse → motor weakness (wrist drop, finger extension weakness).



Ulnar Nerve

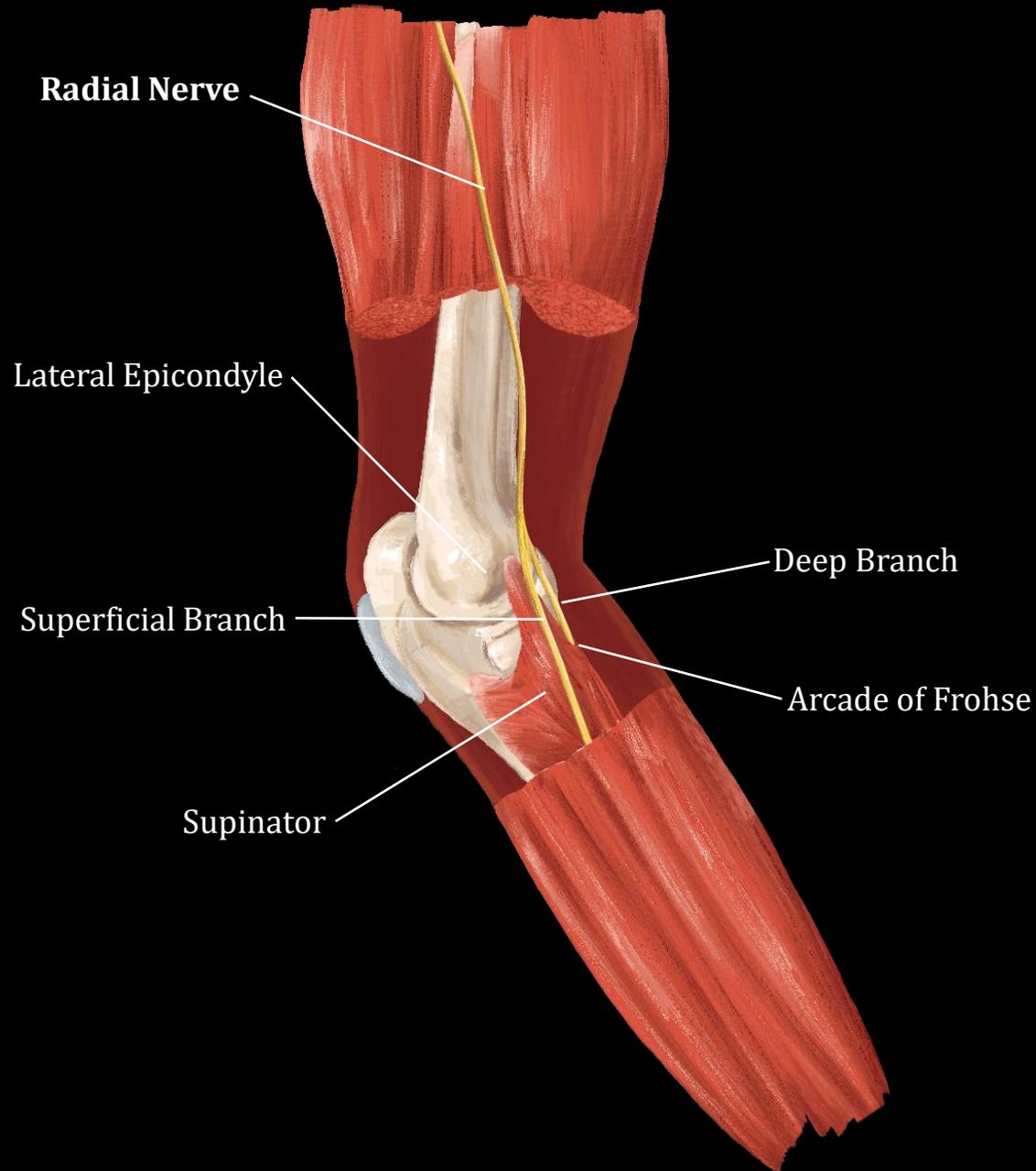
- Passes **posterior to the medial epicondyle**

Median Nerve

- Crosses the elbow **anteriorly**
- Passes **anterior to the distal humerus**
- Enters the forearm between the **medial epicondyle** and the **coronoid process of the ulna**

Radial Nerve

- Crosses the elbow **anterior to the lateral epicondyle**
- Lies directly against the anterior surface of the lateral distal humerus
- The deep branch winds around the **radial neck**

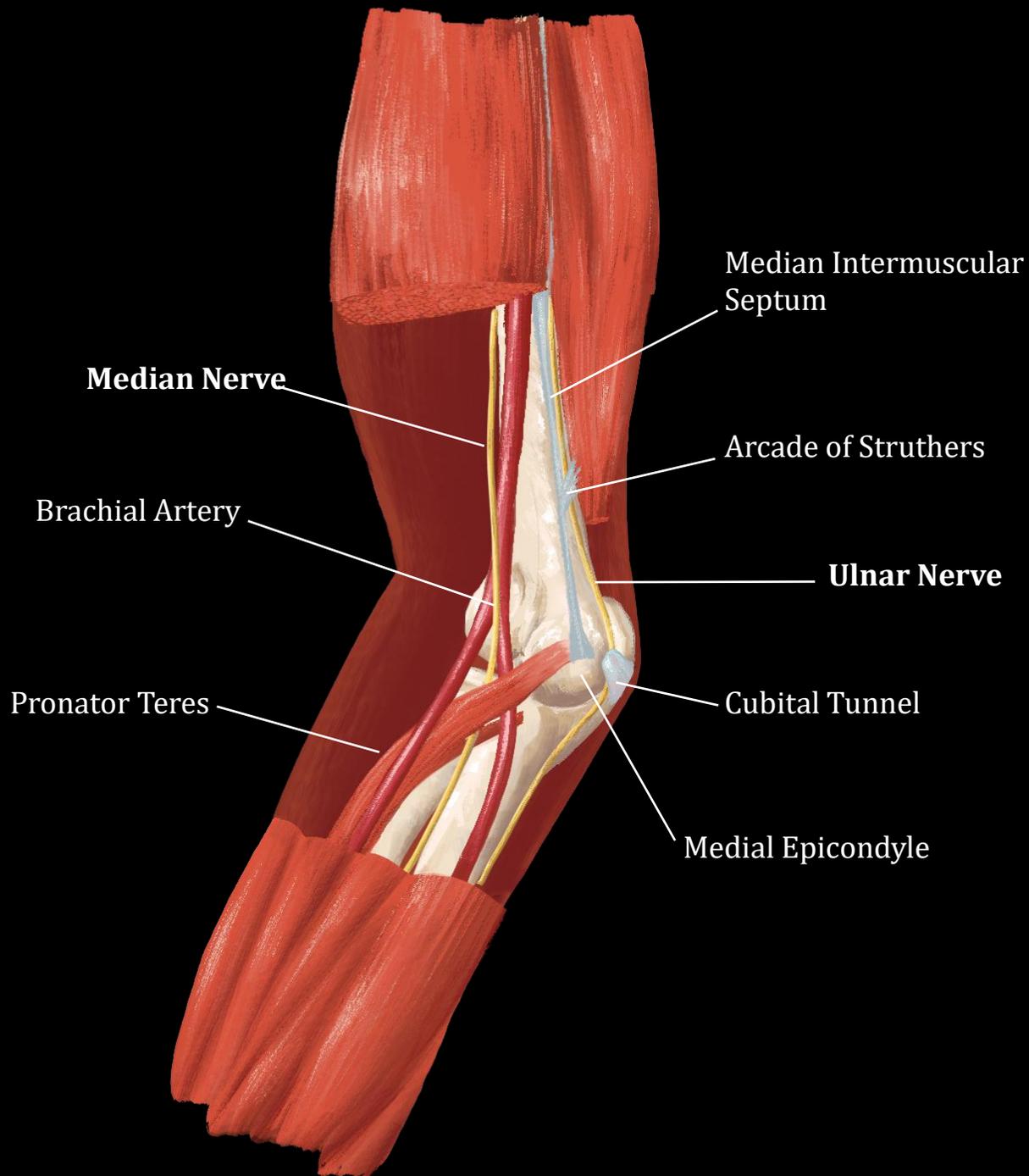


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About the Artist

Kaitlyn Do is an undergraduate at Penn State University majoring in Biochemistry and Molecular Biology. A gifted illustrator, she is creating stunning, hand-drawn medical renderings for the Stanford xrayhead Anatomy Atlas. Kaitlyn's attention to detail breaks down anatomical complexities, providing a clearer educational experience for the reader.

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