

Beyond Exercise, LLC



# Why Cyclists Hurt

Understanding Common Riding  
Complaints Through Body and  
Bike Fit

David Montgomery, PT, DPT





About me

# David Montgomery, PT, DPT

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- **Physical Therapist** & Motion Capture **Lab Manager**  
@ Beyond Exercise in Madisonville
- BS - Sports Biomechanics, U. of Cincinnati - 2010
- Doctor of Physical Therapy, U. of Cincinnati - 2016
- Pedal PT Bike Fit Academy - 2024
- Own mountain, gravel, tri, and fat tire bikes



# Ed's Story





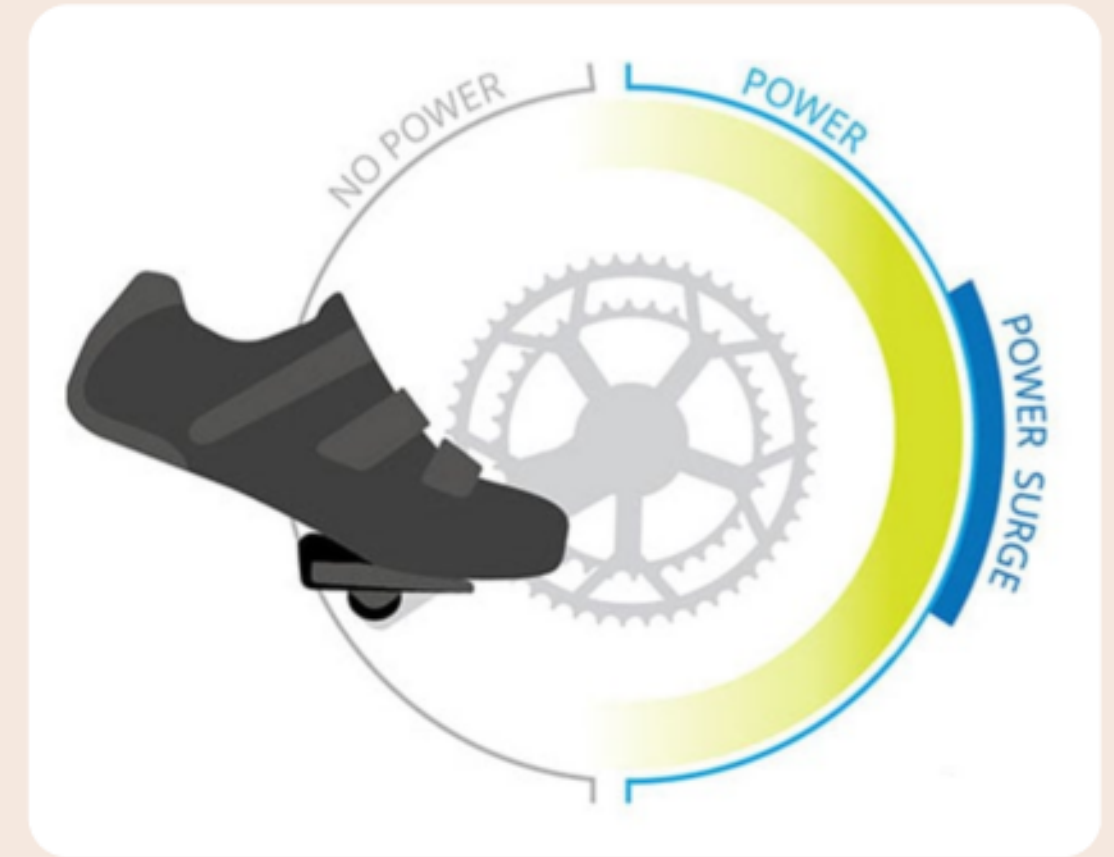
# Ed's Story

*"I started having mild knee pain eight months ago... David at Beyond Exercise was able to help me stretch and eliminate the pain during the first visit without putting a wrench on my bicycle... I have over 900 miles since the first visit and am very happy with the results..."*



# The Rider and the Machine Are One

- Comfort and performance depend on the harmony of body and bike
- Pain is usually a signal, not just a problem
- Fixing one without addressing the other rarely lasts



# Today's Roadmap

## Hotspots



The five most common areas of cycling pain

## Underlying Causes



How bike fit and body fitness each play a role

## Potential Solutions



A few movement examples and cues

## Application



Preview of what we'll practice in the workshop



# “My Neck and Shoulders Get Tight”

## **Bike Fit Factors:**

- Bars too far/low → extended reach
- Narrow bar width or saddle slid back

## **Body Factors:**

- Stiff upper spine
- Weak deep neck flexors / scapular stabilizers
- Postural fatigue





# Quick Mid-Ride Relief

Chin-tuck + scapular set + gentle thoracic extension





# “My Hands Fall Asleep”

## Bike Fit Factors:

- Too much weight on the hands → long reach or saddle tilt
- Incorrect bar angle / hood rotation

## Body Factors:

- Weak core shifts weight forward
- Nerve tension in wrist or forearm



# Strong Core = Light Hands

brace core to redistribute load





# “My Back Aches”

## **Bike Fit Factors:**

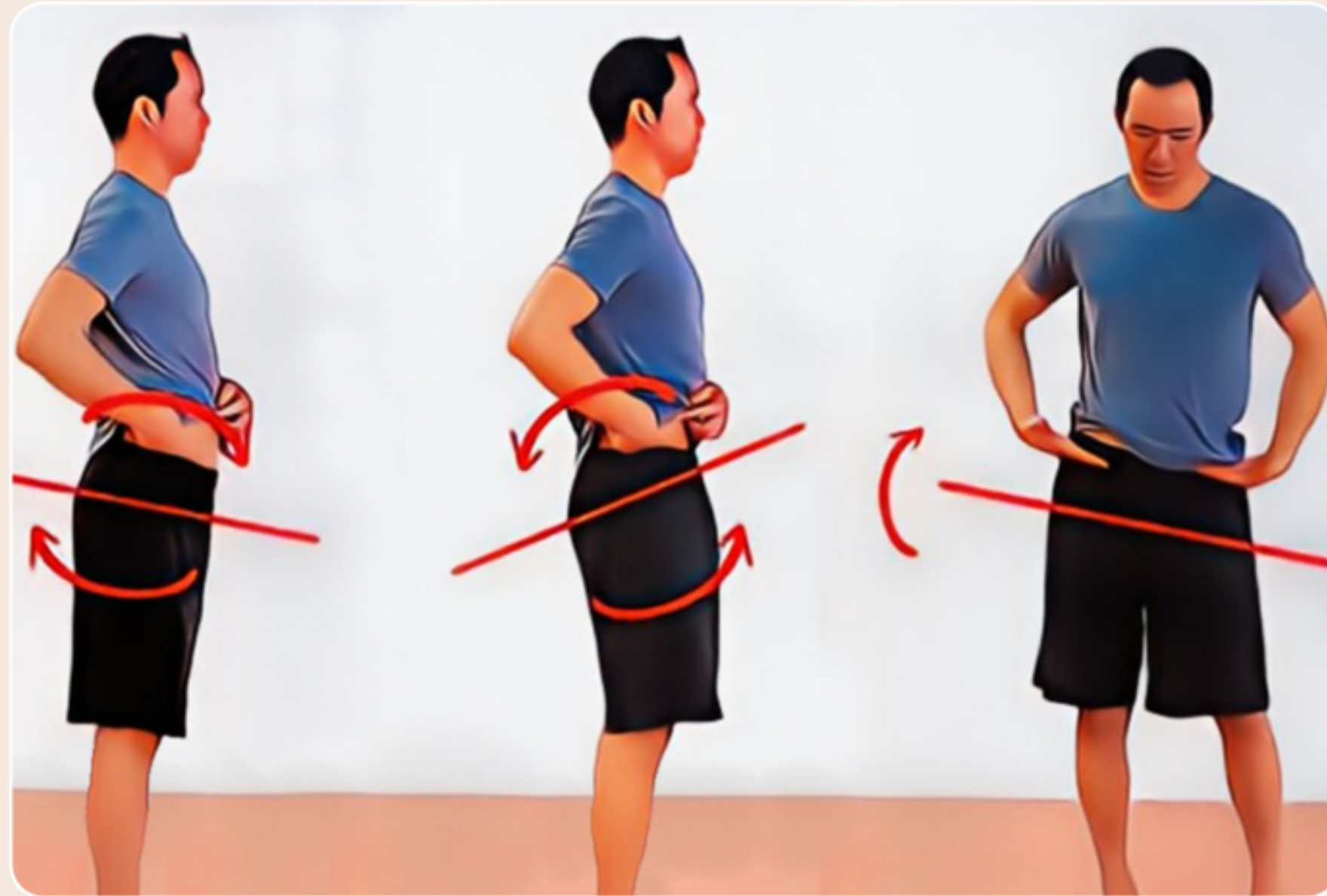
- Saddle height/tilt causing pelvic rocking
- Overreach to bars

## **Body Factors:**

- Tight hip flexors or hamstrings
- Poor lumbopelvic control



# Pelvic Control on / off the Bike





# “I Have Pain in My Knees”

## Bike Fit Factors:

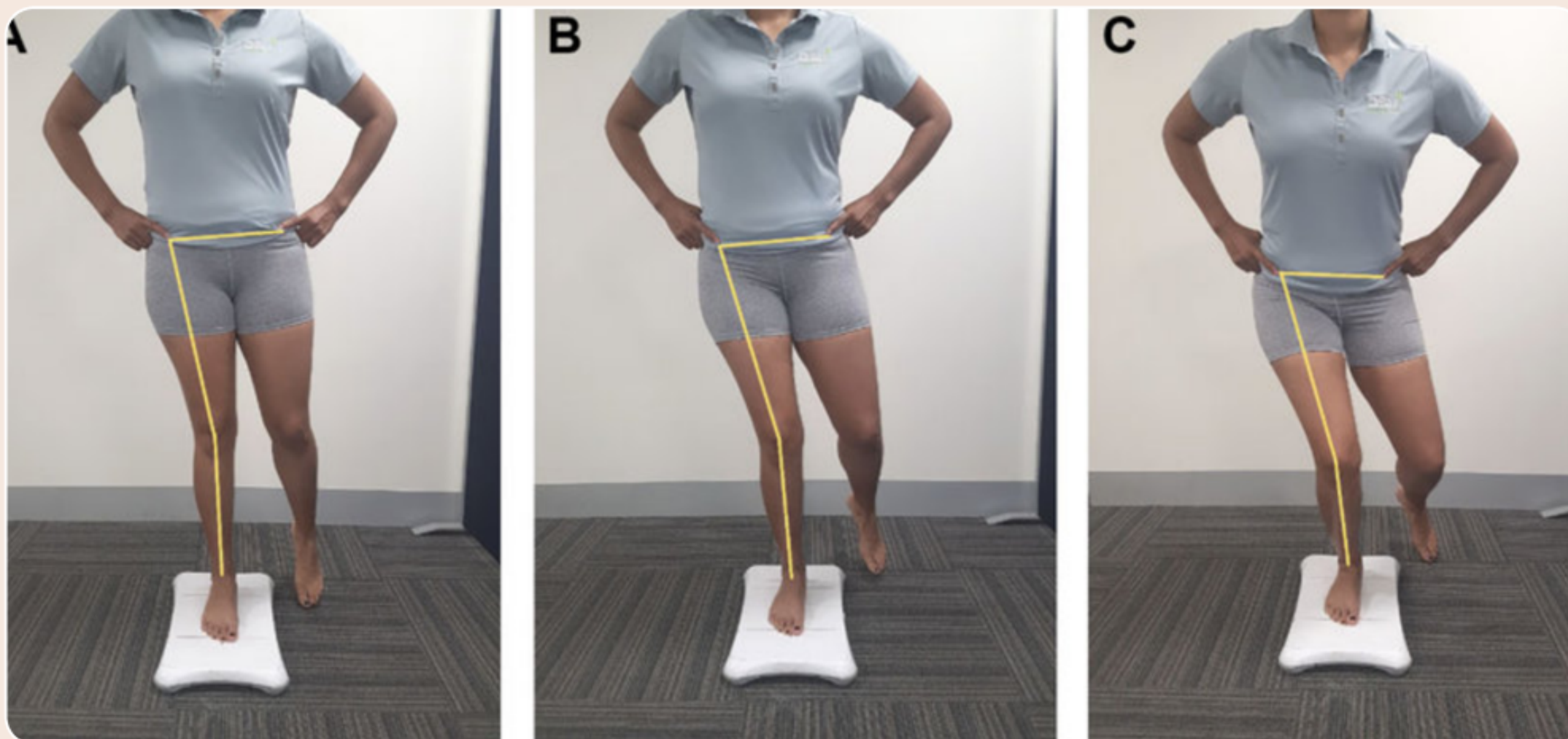
- Saddle too low → front knee pain
- Saddle too high → back knee pain
- Cleat rotation or crank mismatch

## Body Factors:

- Hip weakness or poor tracking control
- Limited ankle mobility



# Train the Hips to Protect the Knees





# “My Feet Burn or Go Numb”

## **Bike Fit Factors:**

- Cleat too far forward
- Shoe too tight or poor insole support

## **Body Factors:**

- Calf tightness
- Weak intrinsic foot muscles



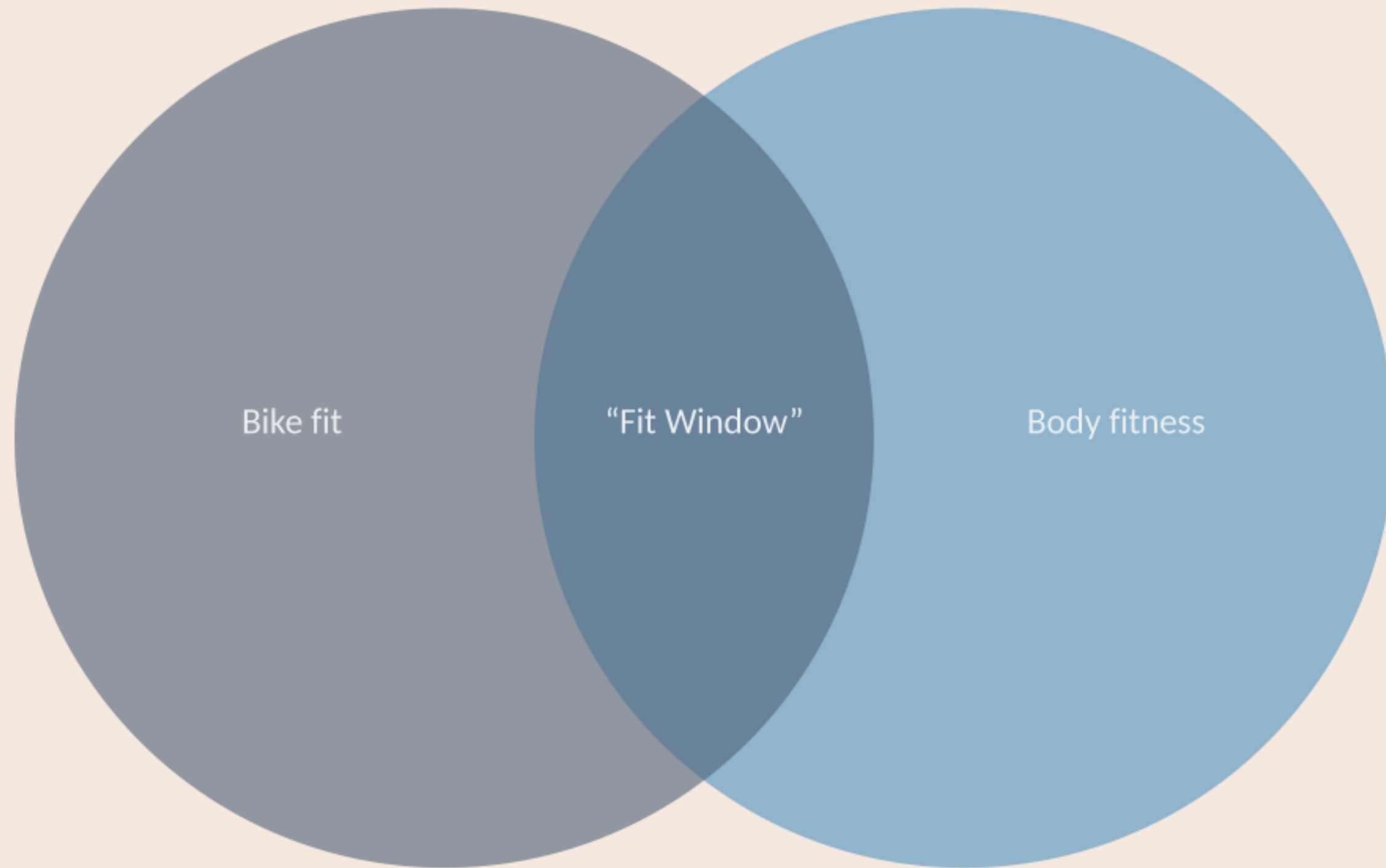
# Restoring the Foot's Role

## Ankle Rockers





# Bike + Body: Finding the Sweet Spot



# How to Tell What's Causing the Problem

## When It Happens

## What It Suggests

Builds during ride, fades after

Fit issue

Lingers off the bike

Body issue

Only on climbs or sprints

Strength/endurance limit

Tingling or numbness

Pressure / contact point





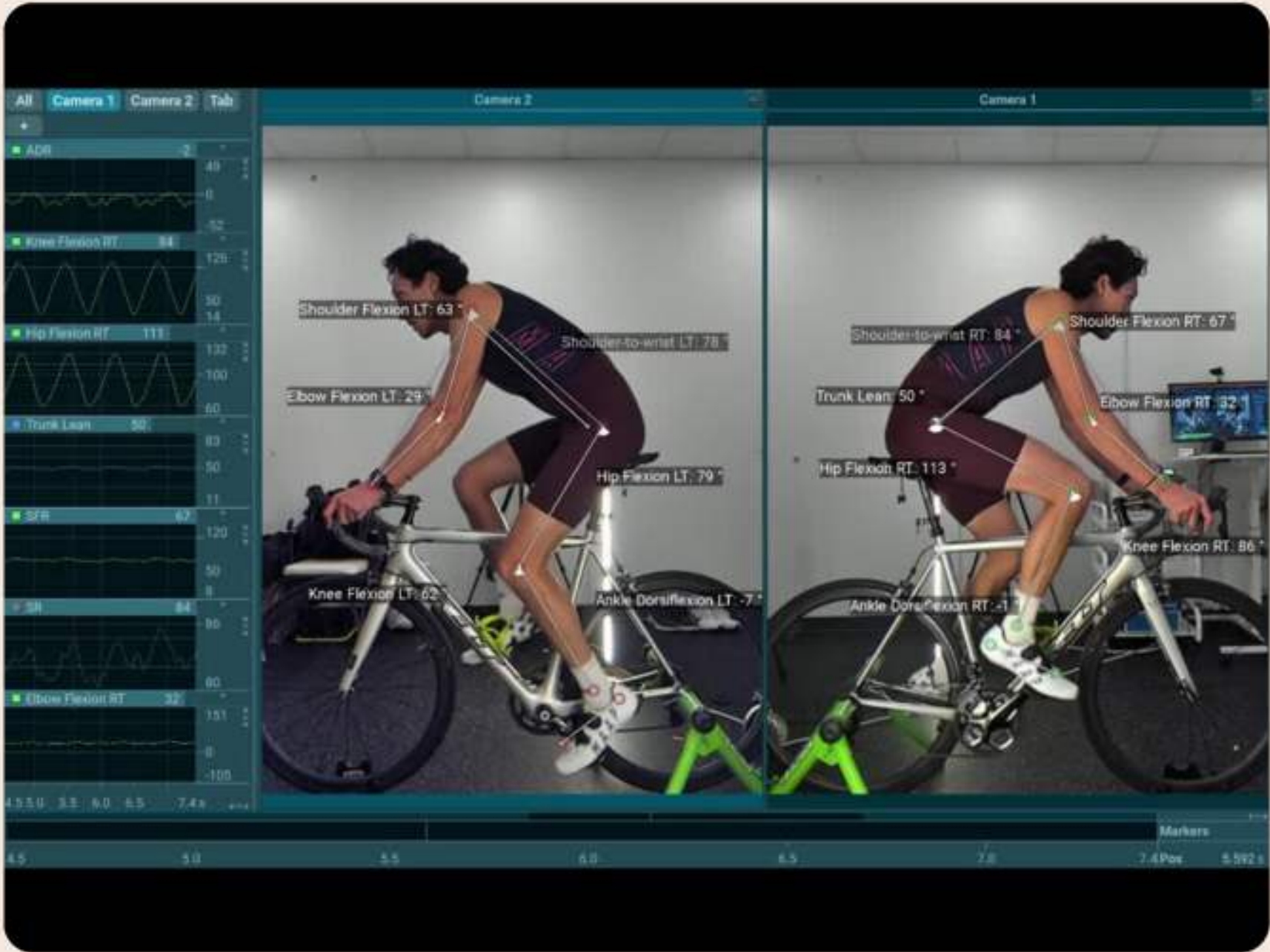
# Keep the Bike and the Body Tuned








- Reassess fit after major gear or mileage changes
- Maintain hip, spine, and foot mobility
- Build postural and core endurance
- Address issues early — not after they sideline you





# Bike Fitting Service



Road Bike Fit Report				
	Subject Last Name First Name	Record Name Date Measured	Road Bike Fit follow-up 1 6/4/2025 15:21	Adjustments made/notes (none)
BOTTOM OF PEDAL STROKE				
JF Min LT, 5.42 s	JF Min LT, 5.42 s	TARGET	JF Min RT, 5.44 s	JF Min RT, 5.44 s
LEFT	Joint Angle, *		Joint Angle, *	RIGHT
	Trunk Lean 53	45	Trunk Lean 48	
	Knee Flexion LT 31	35 - 40	Knee Flexion RT 33	
	Ankle Dorsiflexion LT -19	(-5) - (-15)	Ankle Dorsiflexion RT -7	
	Elbow Flexion LT 23	10 - 30	Elbow Flexion RT 17	
	Shoulder-to-wrist LT 87	< 90	Shoulder-to-wrist RT 91	
TOP OF PEDAL STROKE				
JF Max LT, 5.07 s	JF Max LT, 5.07 s	TARGET	JF Max RT, 5.14 s	JF Max RT, 5.14 s
LEFT	Joint Angle, *		Joint Angle, *	RIGHT
	Hip Flexion LT 117	115 - 125	Hip Flexion RT 120	
	Knee Flexion LT 90	108 - 112	Knee Flexion RT 96	
	Ankle Dorsiflexion LT -17	10 - 20	Ankle Dorsiflexion RT -13	
	Ankling Range LT 2	15 - 30	Ankling Range RT 6	
KNEE OVER PEDAL SPINDLE				
KOPS LT, 6.67 s	KOPS LT, 6.67 s	TARGET	KOPS RT, 7.02 s	KOPS RT, 7.02 s
LEFT	Relative Distance, KOPS LT, %	< 5% difference	Relative Distance, KOPS RT, %	RIGHT
	0.0	Directly above or slightly behind pedal spindle	2.5	





# Workshop Details

- Nov 22, 2:00pm @ **Beyond Exercise**
- 1-hour practical session on strength & mobility for cyclists
- Learn posture, hip, and core exercises from today's talk
- Great opportunity to apply what you've learned
- Check out the bike fitting studio



# Contact



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